

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL CAP GROWTH EQUITY FD	2,314,194.66	143,317	1.47		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MID CAP GROWTH FD	9,190,263.26	572,246	5.86		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MID CAP VALUE FD	8,775,472.34	797,770	5.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML GLOBAL FD	8,865,070.73	760,298	5.65		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML LARGE CAP GROWTH FD	2,912,322.85	265,239	1.86		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SHORT DURATION BOND FUND	3,499,971.29	360,079	2.23		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML TOTAL RETURN BOND FUND	2,241,573.81	223,933	1.43		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL VALUE FUND	8,729,704.01	612,611	5.56		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML STRG EMERGING MARKETS FUND	6,673,092.43	605,544	4.25		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL GROWTH FUND	4,203,511.57	381,444	2.68		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOCUSED EQUITY FUND	2,799,487.27	481,839	1.78		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER DISCOVERY MID CAP	3,117,459.63	36,924	1.99		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL/MID CAP VALUE	2,951,484.63	227,037	1.88		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00		0
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00		0
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00		0
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00		0
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41		0
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69		0
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98		0
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82		0
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88		0
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97		0
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75		0
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00		0
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06		0
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89		0
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07		0
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82		0
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32		0
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49		0
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90		0
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76		0
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28		0
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86		0
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11		0
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08		0
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95		0
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31		0
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95		0
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80		0
MML ASSET MOMENTUM FUND	EQUITY	REGIONS FINANCIAL CORP	278,920.00	15,200	0.91		0
MML ASSET MOMENTUM FUND	EQUITY	SVB FINANCIAL GROUP	341,913.00	1,100	1.11		0
MML ASSET MOMENTUM FUND	EQUITY	WESTERN ALLIANCE BANCORP	278,761.00	4,900	0.91		0
MML ASSET MOMENTUM FUND	EQUITY	SCHINDLER HOLDING PART CERT	174,288.49	700	0.57		0
MML ASSET MOMENTUM FUND	EQUITY	POOL CORP	851,088.00	5,100	2.77		0
MML ASSET MOMENTUM FUND	EQUITY	MASTERCARD INC A	1,179,833.00	5,300	3.84		0
MML ASSET MOMENTUM FUND	EQUITY	NEXUS AG	105,413.13	3,400	0.34		0
MML ASSET MOMENTUM FUND	EQUITY	VISA INC CLASS A SHARES	330,198.00	2,200	1.07		0
MML ASSET MOMENTUM FUND	EQUITY	ONEX CORPORATION	116,255.18	1,700	0.38		0
MML ASSET MOMENTUM FUND	EQUITY	FORTINET INC	811,976.00	8,800	2.64		0
MML ASSET MOMENTUM FUND	EQUITY	EMIS GROUP PLC	155,321.68	11,800	0.50		0
MML ASSET MOMENTUM FUND	EQUITY	BREEDON GROUP PLC	84,262.65	88,437	0.27		0
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI INDIA ETF	214,302.00	6,600	0.70		0
MML ASSET MOMENTUM FUND	EQUITY	CONSTELLATION SOFTWARE INC	220,617.81	300	0.72		0
MML ASSET MOMENTUM FUND	EQUITY	FACEBOOK INC A	1,907,736.00	11,600	6.20		0
MML ASSET MOMENTUM FUND	EQUITY	SYNOVUS FINANCIAL CORP	265,582.00	5,800	0.86		0
MML ASSET MOMENTUM FUND	EQUITY	ALIBABA GROUP HOLDING SP ADR	280,092.00	1,700	0.91		0
MML ASSET MOMENTUM FUND	EQUITY	PAYPAL HOLDINGS INC	597,312.00	6,800	1.94		0
MML ASSET MOMENTUM FUND	FUTURE	S+P500 EMINI FUT DEC18	-	5,550	0.02		0
MML ASSET MOMENTUM FUND	FUTURE	NASDAQ 100 E-MINI DEC18	-	240	0.00		0
MML ASSET MOMENTUM FUND	FIXED INCOME	US TREASURY N/B	2,967,456.90	3,000,000	9.65	1.75	11/30/2019
MML ASSET MOMENTUM FUND	EQUITY	BOOKING HOLDINGS INC	396,800.00	200	1.29		0
MML ASSET MOMENTUM FUND	EQUITY	RIGHTMOVE PLC	214,859.52	35,000	0.70		0
MML ASSET MOMENTUM FUND	EQUITY	OPEN TEXT CORP	159,818.84	4,200	0.52		0
MML BALANCED ALLOCATION FUND	EQUITY	MML SMALL CAP GROWTH EQUITY FD	4,674,195.29	289,470	0.82		0
MML BALANCED ALLOCATION FUND	EQUITY	MML MID CAP GROWTH FD	14,731,900.39	917,304	2.60		0
MML BALANCED ALLOCATION FUND	EQUITY	MML MID CAP VALUE FD	16,301,351.74	1,481,941	2.88		0
MML BALANCED ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	17,097,237.40	1,003,948	3.02		0
MML BALANCED ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	19,075,139.14	1,664,497	3.37		0
MML BALANCED ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	20,365,899.72	2,057,162	3.59		0
MML BALANCED ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	94,698,958.67	7,843,534	16.71		0
MML BALANCED ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	10,560,839.50	233,750	1.86		0
MML BALANCED ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	19,073,252.58	1,936,371	3.37		0
MML BALANCED ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	7,316,177.78	424,865	1.29		0
MML BALANCED ALLOCATION FUND	EQUITY	MML FOREIGN FD	16,334,617.21	1,528,028	2.88		0
MML BALANCED ALLOCATION FUND	EQUITY	MML GLOBAL FD	17,273,843.69	1,481,462	3.05		0
MML BALANCED ALLOCATION FUND	EQUITY	MML LARGE CAP GROWTH FD	5,613,641.98	511,261	0.99		0
MML BALANCED ALLOCATION FUND	EQUITY	MML SHORT DURATION BOND FUND	26,000,982.08	2,674,998	4.59		0
MML BALANCED ALLOCATION FUND	EQUITY	MML HIGH YIELD FUND	15,778,520.45	1,588,975	2.78		0
MML BALANCED ALLOCATION FUND	EQUITY	MML TOTAL RETURN BOND FUND	59,906,526.46	5,984,668	10.57		0
MML BALANCED ALLOCATION FUND	EQUITY	MML FUNDAMENTAL VALUE FUND	18,598,672.84	1,305,170	3.28		0
MML BALANCED ALLOCATION FUND	EQUITY	MML FUNDAMENTAL GROWTH FUND	10,966,488.58	995,144	1.94		0
MML BALANCED ALLOCATION FUND	EQUITY	MML FOCUSED EQUITY FUND	2,894,464.10	498,187	0.51		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BALANCED ALLOCATION FUND	EQUITY	OPPENHEIMER DISCOVERY MID CAP	5,189,939.20	61,470	0.92		0
MML BALANCED ALLOCATION FUND	EQUITY	MML SMALL/MID CAP VALUE	4,597,942.21	353,688	0.81		0
MML BALANCED ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	42,220,664.45	4,251,829	7.45		0
MML BALANCED ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	13,029,742.98	1,220,013	2.30		0
MML BALANCED ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	12,362,172.07	5,194,190	2.18		0
MML BALANCED ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	67,402,948.24	6,920,221	11.90		0
MML BALANCED ALLOCATION FUND	EQUITY	MML SER INVT FD	18,154,265.98	559,453	3.20		0
MML BALANCED ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	6,371,736.85	204,945	1.12		0
MML BLEND FUND	EQUITY	XCEL ENERGY INC	258,333.12	5,472	0.05		0
MML BLEND FUND	EQUITY	MOODY S CORP	556,776.00	3,330	0.11		0
MML BLEND FUND	EQUITY	IRON MOUNTAIN INC	1,656.96	48	0.00		0
MML BLEND FUND	EQUITY	EQUINIX INC	51,946.80	120	0.01		0
MML BLEND FUND	EQUITY	MEDTRONIC PLC	2,754,360.00	28,000	0.55		0
MML BLEND FUND	EQUITY	EVERSOURCE ENERGY	49,889.28	812	0.01		0
MML BLEND FUND	EQUITY	MYLAN NV	440,920.20	12,047	0.09		0
MML BLEND FUND	EQUITY	ALLERGAN PLC	1,062,878.40	5,580	0.21		0
MML BLEND FUND	EQUITY	WESTROCK CO	1,938,108.48	36,267	0.39		0
MML BLEND FUND	EQUITY	WEC ENERGY GROUP INC	303,223.92	4,542	0.06		0
MML BLEND FUND	EQUITY	KRAFT HEINZ CO/THE	273,235.38	4,958	0.05		0
MML BLEND FUND	EQUITY	PAYPAL HOLDINGS INC	6,763.68	77	0.00		0
MML BLEND FUND	EQUITY	WELLTOWER INC	135,072.00	2,100	0.03		0
MML BLEND FUND	EQUITY	ALPHABET INC CL C	9,322,194.17	7,811	1.87		0
MML BLEND FUND	EQUITY	ALPHABET INC CL A	8,208,144.00	6,800	1.65		0
MML BLEND FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	1,097,238.94	67,274	0.22		0
MML BLEND FUND	EQUITY	HP INC	1,854,769.98	71,974	0.37		0
MML BLEND FUND	EQUITY	CHUBB LTD	1,011,387.52	7,568	0.20		0
MML BLEND FUND	EQUITY	DENTSPLY SIRONA INC	2,113.44	56	0.00		0
MML BLEND FUND	EQUITY	S+P GLOBAL INC	198,907.02	1,018	0.04		0
MML BLEND FUND	EQUITY	CHARTER COMMUNICATIONS INC A	1,043,141.88	3,201	0.21		0
MML BLEND FUND	EQUITY	FORTIVE CORP W/D	494,927.60	5,878	0.10		0
MML BLEND FUND	EQUITY	JOHNSON CONTROLS INTERNATION	691,775.00	19,765	0.14		0
MML BLEND FUND	EQUITY	ARCONIC INC	176.08	8	0.00		0
MML BLEND FUND	EQUITY	L3 TECHNOLOGIES INC	206,241.40	970	0.04		0
MML BLEND FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	1,025,906.00	12,700	0.21		0
MML BLEND FUND	EQUITY	TECHNIPFMC PLC	260,625.00	8,340	0.05		0
MML BLEND FUND	EQUITY	DXC TECHNOLOGY CO	1,587,876.08	16,979	0.32		0
MML BLEND FUND	EQUITY	XEROX CORP	22,555.28	836	0.00		0
MML BLEND FUND	EQUITY	BAKER HUGHES A GE CO	1,048.73	31	0.00		0
MML BLEND FUND	EQUITY	BRIGHTHOUSE FINANCIAL INC	1,150.24	26	0.00		0
MML BLEND FUND	EQUITY	ANDEAVOR	386,359.50	2,517	0.08		0
MML BLEND FUND	EQUITY	DOWDUPONT INC	2,091,361.20	32,520	0.42		0
MML BLEND FUND	EQUITY	TAPESTRY INC	312,679.40	6,220	0.06		0
MML BLEND FUND	EQUITY	IQVIA HOLDINGS INC	913,369.60	7,040	0.18		0
MML BLEND FUND	EQUITY	APTIV PLC	780,270.00	9,300	0.16		0
MML BLEND FUND	EQUITY	BOOKING HOLDINGS INC	1,767,744.00	891	0.35		0
MML BLEND FUND	EQUITY	BROADCOM INC	1,739,199.77	7,049	0.35		0
MML BLEND FUND	EQUITY	JEFFERIES FINANCIAL GROUP IN	812.52	37	0.00		0
MML BLEND FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	365,050.81	365,051	0.07	1.1	10/1/2018
MML BLEND FUND	EQUITY	HCP INC	921.20	35	0.00		0
MML BLEND FUND	EQUITY	INVESCO LTD	48,322.56	2,112	0.01		0
MML BLEND FUND	EQUITY	DISH NETWORK CORP A	1,880,976.00	52,600	0.38		0
MML BLEND FUND	EQUITY	DOLLAR TREE INC	3,914.40	48	0.00		0

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MML BLEND FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	3,464,308.44	42,486	0.69		0
MML BLEND FUND	EQUITY	MGM RESORTS INTERNATIONAL	1,133,146.00	40,600	0.23		0
MML BLEND FUND	EQUITY	SCHWAB (CHARLES) CORP	1,037,654.80	21,112	0.21		0
MML BLEND FUND	EQUITY	VISA INC CLASS A SHARES	5,714,226.48	38,072	1.15		0
MML BLEND FUND	EQUITY	NETAPP INC	1,897,997.22	22,098	0.38		0
MML BLEND FUND	EQUITY	ACTIVISION BLIZZARD INC	16,638.00	200	0.00		0
MML BLEND FUND	EQUITY	DISCOVERY INC A	19,200.00	600	0.00		0
MML BLEND FUND	EQUITY	DISCOVERY INC C	456,803.94	15,443	0.09		0
MML BLEND FUND	EQUITY	EQT CORP	4,290.31	97	0.00		0
MML BLEND FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	2,449.04	46	0.00		0
MML BLEND FUND	EQUITY	INGERSOLL RAND PLC	982,080.00	9,600	0.20		0
MML BLEND FUND	EQUITY	ACCENTURE PLC CL A	721,648.00	4,240	0.14		0
MML BLEND FUND	EQUITY	MERCK + CO. INC.	3,659,298.02	51,583	0.73		0
MML BLEND FUND	EQUITY	BERKSHIRE HATHAWAY INC CL B	8,227,390.86	38,426	1.65		0
MML BLEND FUND	EQUITY	STANLEY BLACK + DECKER INC	1,317.96	9	0.00		0
MML BLEND FUND	EQUITY	LYONDELLBASELL INDU CL A	1,808,276.40	17,640	0.36		0
MML BLEND FUND	EQUITY	E TRADE FINANCIAL CORP	668,548.79	12,761	0.13		0
MML BLEND FUND	EQUITY	NEXTERA ENERGY INC	509,504.00	3,040	0.10		0
MML BLEND FUND	EQUITY	GARMIN LTD	147,105.00	2,100	0.03		0
MML BLEND FUND	EQUITY	SEAGATE TECHNOLOGY	1,519,935.00	32,100	0.30		0
MML BLEND FUND	EQUITY	UNITED CONTINENTAL HOLDINGS	1,968,226.00	22,100	0.39		0
MML BLEND FUND	EQUITY	GENERAL MOTORS CO	1,521,884.00	45,200	0.31		0
MML BLEND FUND	EQUITY	MOTOROLA SOLUTIONS INC	408,249.18	3,137	0.08		0
MML BLEND FUND	EQUITY	O REILLY AUTOMOTIVE INC	1,272,233.16	3,663	0.26		0
MML BLEND FUND	EQUITY	KINDER MORGAN INC	673.74	38	0.00		0
MML BLEND FUND	EQUITY	HCA HEALTHCARE INC	361,712.00	2,600	0.07		0
MML BLEND FUND	EQUITY	HUNTINGTON INGALLS INDUSTRIE	1,774,634.40	6,930	0.36		0
MML BLEND FUND	EQUITY	CITIGROUP INC	5,850,468.74	81,551	1.17		0
MML BLEND FUND	EQUITY	MOSAIC CO/THE	1,994,272.00	61,400	0.40		0
MML BLEND FUND	EQUITY	PROLOGIS INC	870,288.02	12,838	0.17		0
MML BLEND FUND	EQUITY	MARATHON PETROLEUM CORP	1,903,765.82	23,806	0.38		0
MML BLEND FUND	EQUITY	HOLLYFRONTIER CORP	817,830.00	11,700	0.16		0
MML BLEND FUND	EQUITY	PVH CORP	233,928.00	1,620	0.05		0
MML BLEND FUND	EQUITY	RALPH LAUREN CORP	1,836,292.50	13,350	0.37		0
MML BLEND FUND	EQUITY	CBRE GROUP INC A	1,071,056.70	24,287	0.21		0
MML BLEND FUND	EQUITY	XYLEM INC	267,963.85	3,355	0.05		0
MML BLEND FUND	EQUITY	TRIPADVISOR INC	1,889.59	37	0.00		0
MML BLEND FUND	EQUITY	MICHAEL KORS HOLDINGS LTD	1,295,784.00	18,900	0.26		0
MML BLEND FUND	EQUITY	EXPEDIA GROUP INC	672,885.36	5,157	0.13		0
MML BLEND FUND	EQUITY	AMERICAN TOWER CORP	17,290.70	119	0.00		0
MML BLEND FUND	EQUITY	AON PLC	529,772.10	3,445	0.11		0
MML BLEND FUND	EQUITY	EXPRESS SCRIPTS HOLDING CO	2,213,828.01	23,301	0.44		0
MML BLEND FUND	EQUITY	PHILLIPS 66	1,394,233.68	12,369	0.28		0
MML BLEND FUND	EQUITY	FACEBOOK INC A	5,682,093.00	34,550	1.14		0
MML BLEND FUND	EQUITY	DUKE ENERGY CORP	1,215,503.80	15,190	0.24		0
MML BLEND FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	3,222.00	75	0.00		0
MML BLEND FUND	EQUITY	EATON CORP PLC	1,176,579.18	13,566	0.24		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	TWENTY FIRST CENTURY FOX B	371,142.00	8,100	0.07		0
MML BLEND FUND	EQUITY	INTERCONTINENTAL EXCHANGE IN	1,123.35	15	0.00		0
MML BLEND FUND	EQUITY	ALLEGION PLC	147,900.81	1,633	0.03		0
MML BLEND FUND	EQUITY	AMERICAN AIRLINES GROUP INC	1,165,506.00	28,200	0.23		0
MML BLEND FUND	EQUITY	PERRIGO CO PLC	155,760.00	2,200	0.03		0
MML BLEND FUND	EQUITY	PENTAIR PLC	781,297.05	18,023	0.16		0
MML BLEND FUND	EQUITY	SYNCHRONY FINANCIAL	624,708.00	20,100	0.13		0
MML BLEND FUND	EQUITY	CITIZENS FINANCIAL GROUP	1,022,105.00	26,500	0.20		0
MML BLEND FUND	EQUITY	ANTHEM INC	1,588,393.80	5,796	0.32		0
MML BLEND FUND	EQUITY	WALGREENS BOOTS ALLIANCE INC	1,207,005.30	16,557	0.24		0
MML BLEND FUND	EQUITY	NEWFIELD EXPLORATION CO	1,040,763.00	36,100	0.21		0
MML BLEND FUND	EQUITY	QUANTA SERVICES INC	961,777.94	28,813	0.19		0
MML BLEND FUND	EQUITY	FORD MOTOR CO	1,188,745.25	128,513	0.24		0
MML BLEND FUND	EQUITY	AUTOZONE INC	383,195.80	494	0.08		0
MML BLEND FUND	EQUITY	AVERY DENNISON CORP	207,490.25	1,915	0.04		0
MML BLEND FUND	EQUITY	CONSTELLATION BRANDS INC A	116,866.04	542	0.02		0
MML BLEND FUND	EQUITY	NASDAQ INC	3,861.00	45	0.00		0
MML BLEND FUND	EQUITY	DAVITA INC	217,038.90	3,030	0.04		0
MML BLEND FUND	EQUITY	EXELON CORP	966,632.40	22,140	0.19		0
MML BLEND FUND	EQUITY	FLUOR CORP	976,602.90	16,809	0.20		0
MML BLEND FUND	EQUITY	AETNA INC	1,263,146.95	6,227	0.25		0
MML BLEND FUND	EQUITY	T ROWE PRICE GROUP INC	1,703,863.08	15,606	0.34		0
MML BLEND FUND	EQUITY	JPMORGAN CHASE + CO	7,736,536.08	68,562	1.55		0
MML BLEND FUND	EQUITY	US BANCORP	401,461.62	7,602	0.08		0
MML BLEND FUND	EQUITY	RAYTHEON COMPANY	997,961.14	4,829	0.20		0
MML BLEND FUND	EQUITY	ALLIANCE DATA SYSTEMS CORP	1,934,150.40	8,190	0.39		0
MML BLEND FUND	EQUITY	ROCKWELL COLLINS INC	1,123.76	8	0.00		0
MML BLEND FUND	EQUITY	ZIMMER BIOMET HOLDINGS INC	322,758.85	2,455	0.06		0
MML BLEND FUND	EQUITY	AMERISOURCEBERGEN CORP	138,975.54	1,507	0.03		0
MML BLEND FUND	EQUITY	CHEVRON CORP	3,887,036.64	31,788	0.78		0
MML BLEND FUND	EQUITY	PRINCIPAL FINANCIAL GROUP	476,278.11	8,129	0.10		0
MML BLEND FUND	EQUITY	FOOT LOCKER INC	2,156,454.00	42,300	0.43		0
MML BLEND FUND	EQUITY	PRUDENTIAL FINANCIAL INC	1,594,472.84	15,737	0.32		0
MML BLEND FUND	EQUITY	CENTENE CORP	435,787.80	3,010	0.09		0
MML BLEND FUND	EQUITY	3M CO	421.42	2	0.00		0
MML BLEND FUND	EQUITY	NOBLE ENERGY INC	1,746.64	56	0.00		0
MML BLEND FUND	EQUITY	YUM BRANDS INC	3,181.85	35	0.00		0
MML BLEND FUND	EQUITY	NETFLIX INC	3,222,381.69	8,613	0.65		0
MML BLEND FUND	EQUITY	JM SMUCKER CO/THE	86,705.45	845	0.02		0
MML BLEND FUND	EQUITY	SKYWORKS SOLUTIONS INC	545,167.10	6,010	0.11		0
MML BLEND FUND	EQUITY	CONOCOPHILLIPS	3,323,478.60	42,939	0.67		0
MML BLEND FUND	EQUITY	CENTERPOINT ENERGY INC	656,162.15	23,731	0.13		0
MML BLEND FUND	EQUITY	WYNN RESORTS LTD	386,008.28	3,038	0.08		0
MML BLEND FUND	EQUITY	COMCAST CORP CLASS A	3,800,342.84	107,324	0.76		0
MML BLEND FUND	EQUITY	ALTRIA GROUP INC	636,813.29	10,559	0.13		0
MML BLEND FUND	EQUITY	INTUITIVE SURGICAL INC	165,312.00	288	0.03		0
MML BLEND FUND	EQUITY	BIOGEN INC	2,639,932.32	7,472	0.53		0
MML BLEND FUND	EQUITY	NRG ENERGY INC	44,880.00	1,200	0.01		0
MML BLEND FUND	EQUITY	ASSURANT INC	563,067.20	5,216	0.11		0
MML BLEND FUND	EQUITY	SALESFORCE.COM INC	2,155,492.62	13,554	0.43		0
MML BLEND FUND	EQUITY	REGIONS FINANCIAL CORP	1,462,770.25	79,715	0.29		0
MML BLEND FUND	EQUITY	EXTRA SPACE STORAGE INC	606,480.00	7,000	0.12		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	DIGITAL REALTY TRUST INC	31,494.40	280	0.01		0
MML BLEND FUND	EQUITY	MOLSON COORS BREWING CO B	1,820,400.00	29,600	0.37		0
MML BLEND FUND	EQUITY	SVB FINANCIAL GROUP	1,202,912.10	3,870	0.24		0
MML BLEND FUND	EQUITY	CF INDUSTRIES HOLDINGS INC	881,383.60	16,190	0.18		0
MML BLEND FUND	EQUITY	AMERIPRISE FINANCIAL INC	1,676,826.96	11,356	0.34		0
MML BLEND FUND	EQUITY	C.H. ROBINSON WORLDWIDE INC	11,750.40	120	0.00		0
MML BLEND FUND	EQUITY	AT+T INC	4,856,541.08	144,626	0.97		0
MML BLEND FUND	EQUITY	VIACOM INC CLASS B	432,465.60	12,810	0.09		0
MML BLEND FUND	EQUITY	CBS CORP CLASS B NON VOTING	3,274.65	57	0.00		0
MML BLEND FUND	EQUITY	FIDELITY NATIONAL INFO SERV	599,885.00	5,500	0.12		0
MML BLEND FUND	EQUITY	CA INC	665,472.95	15,073	0.13		0
MML BLEND FUND	EQUITY	HESS CORP	2,290.56	32	0.00		0
MML BLEND FUND	EQUITY	MASTERCARD INC A	5,066,603.60	22,760	1.02		0
MML BLEND FUND	EQUITY	HANESBRANDS INC	127,167.00	6,900	0.03		0
MML BLEND FUND	EQUITY	WESTERN UNION CO	1,370,185.28	71,888	0.27		0
MML BLEND FUND	EQUITY	TRAVELERS COS INC/THE	296,646.77	2,287	0.06		0
MML BLEND FUND	EQUITY	BROADRIDGE FINANCIAL SOLUTIO	803,575.50	6,090	0.16		0
MML BLEND FUND	EQUITY	PEOPLE S UNITED FINANCIAL	434,009.12	25,351	0.09		0
MML BLEND FUND	EQUITY	DELTA AIR LINES INC	1,341,656.00	23,200	0.27		0
MML BLEND FUND	EQUITY	MACY S INC	1,908,448.23	54,951	0.38		0
MML BLEND FUND	EQUITY	DISCOVER FINANCIAL SERVICES	136,310.35	1,783	0.03		0
MML BLEND FUND	EQUITY	BANK OF NEW YORK MELLON CORP	1,514,759.93	29,707	0.30		0
MML BLEND FUND	EQUITY	VERIZON COMMUNICATIONS INC	3,345,150.45	62,655	0.67		0
MML BLEND FUND	EQUITY	JUNIPER NETWORKS INC	763,905.33	25,489	0.15		0
MML BLEND FUND	EQUITY	METLIFE INC	1,503,916.80	32,190	0.30		0
MML BLEND FUND	EQUITY	ELECTRONIC ARTS INC	104,464.83	867	0.02		0
MML BLEND FUND	EQUITY	AFLAC INC	1,362,394.08	28,944	0.27		0
MML BLEND FUND	EQUITY	ADOBE INC	3,401,370.00	12,600	0.68		0
MML BLEND FUND	EQUITY	HORMEL FOODS CORP	619,840.80	15,732	0.12		0
MML BLEND FUND	EQUITY	MCCORMICK + CO NON VTG SHRS	21,211.75	161	0.00		0
MML BLEND FUND	EQUITY	UNITEDHEALTH GROUP INC	5,239,391.76	19,694	1.05		0
MML BLEND FUND	EQUITY	AUTODESK INC	5,776.07	37	0.00		0
MML BLEND FUND	EQUITY	JACOBS ENGINEERING GROUP INC	1,332,630.00	17,420	0.27		0
MML BLEND FUND	EQUITY	LABORATORY CRP OF AMER HLDGS	347.36	2	0.00		0
MML BLEND FUND	EQUITY	CAMPBELL SOUP CO	59,487.12	1,624	0.01		0
MML BLEND FUND	EQUITY	PARKER HANNIFIN CORP	523,832.64	2,848	0.11		0
MML BLEND FUND	EQUITY	VF CORP	205,590.00	2,200	0.04		0
MML BLEND FUND	EQUITY	TYSON FOODS INC CL A	256,038.53	4,301	0.05		0
MML BLEND FUND	EQUITY	DANAHER CORP	1,223,076.96	11,256	0.25		0
MML BLEND FUND	EQUITY	SEALED AIR CORP	2,127.95	53	0.00		0
MML BLEND FUND	EQUITY	REPUBLIC SERVICES INC	24,486.42	337	0.00		0
MML BLEND FUND	EQUITY	AKAMAI TECHNOLOGIES INC	1,464,901.90	20,026	0.29		0
MML BLEND FUND	EQUITY	BLACKROCK INC	1,498,829.40	3,180	0.30		0
MML BLEND FUND	EQUITY	AGILENT TECHNOLOGIES INC	1,069,598.02	15,163	0.21		0
MML BLEND FUND	EQUITY	PACCAR INC	956,160.18	14,022	0.19		0
MML BLEND FUND	EQUITY	MICROCHIP TECHNOLOGY INC	1,657.11	21	0.00		0
MML BLEND FUND	EQUITY	NATIONAL OILWELL VARCO INC	981,965.52	22,794	0.20		0
MML BLEND FUND	EQUITY	STARBUCKS CORP	3,069.36	54	0.00		0
MML BLEND FUND	EQUITY	RAYMOND JAMES FINANCIAL INC	451,045.00	4,900	0.09		0
MML BLEND FUND	EQUITY	LEGGETT + PLATT INC	3,765.94	86	0.00		0
MML BLEND FUND	EQUITY	WASTE MANAGEMENT INC	178,280.28	1,973	0.04		0
MML BLEND FUND	EQUITY	WHIRLPOOL CORP	147,606.25	1,243	0.03		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	AMERICAN EXPRESS CO	268,248.31	2,519	0.05		0
MML BLEND FUND	EQUITY	COCA COLA CO/THE	1,470,227.70	31,830	0.29		0
MML BLEND FUND	EQUITY	MARRIOTT INTERNATIONAL CL A	121,599.63	921	0.02		0
MML BLEND FUND	EQUITY	NIKE INC CL B	1,032,228.48	12,184	0.21		0
MML BLEND FUND	EQUITY	ANALOG DEVICES INC	99,117.12	1,072	0.02		0
MML BLEND FUND	EQUITY	CARDINAL HEALTH INC	852,012.00	15,778	0.17		0
MML BLEND FUND	EQUITY	HARLEY DAVIDSON INC	453,090.60	10,002	0.09		0
MML BLEND FUND	EQUITY	INTERPUBLIC GROUP OF COS INC	158,306.14	6,922	0.03		0
MML BLEND FUND	EQUITY	KROGER CO	1,017,627.38	34,958	0.20		0
MML BLEND FUND	EQUITY	PEPSICO INC	2,779,348.00	24,860	0.56		0
MML BLEND FUND	EQUITY	UNITED PARCEL SERVICE CL B	569,740.00	4,880	0.11		0
MML BLEND FUND	EQUITY	SHERWIN WILLIAMS CO/THE	1,365.63	3	0.00		0
MML BLEND FUND	EQUITY	SNAP ON INC	1,463,475.60	7,971	0.29		0
MML BLEND FUND	EQUITY	ANADARKO PETROLEUM CORP	1,331,212.68	19,748	0.27		0
MML BLEND FUND	EQUITY	KIMCO REALTY CORP	46,319.58	2,767	0.01		0
MML BLEND FUND	EQUITY	TIFFANY + CO	103,433.94	802	0.02		0
MML BLEND FUND	EQUITY	VORNADO REALTY TRUST	100,229.00	1,373	0.02		0
MML BLEND FUND	EQUITY	ZIONS BANCORP NA	212,686.15	4,241	0.04		0
MML BLEND FUND	EQUITY	AVALONBAY COMMUNITIES INC	376,973.15	2,081	0.08		0
MML BLEND FUND	EQUITY	BOSTON PROPERTIES INC	369.27	3	0.00		0
MML BLEND FUND	EQUITY	EQUITY RESIDENTIAL	3,710.56	56	0.00		0
MML BLEND FUND	EQUITY	HOST HOTELS + RESORTS INC	587,360.70	27,837	0.12		0
MML BLEND FUND	EQUITY	SL GREEN REALTY CORP	1,803,329.70	18,490	0.36		0
MML BLEND FUND	EQUITY	DUKE REALTY CORP	255,330.00	9,000	0.05		0
MML BLEND FUND	EQUITY	PUBLIC STORAGE	40,930.89	203	0.01		0
MML BLEND FUND	EQUITY	SIMON PROPERTY GROUP INC	114,003.75	645	0.02		0
MML BLEND FUND	EQUITY	AIR PRODUCTS + CHEMICALS INC	1,302,154.75	7,795	0.26		0
MML BLEND FUND	EQUITY	AUTOMATIC DATA PROCESSING	1,611,911.34	10,699	0.32		0
MML BLEND FUND	EQUITY	CIGNA CORP	1,356,124.00	6,512	0.27		0
MML BLEND FUND	EQUITY	CATERPILLAR INC	1,711,700.25	11,225	0.34		0
MML BLEND FUND	EQUITY	COLGATE PALMOLIVE CO	395,406.70	5,906	0.08		0
MML BLEND FUND	EQUITY	ECOLAB INC	313.56	2	0.00		0
MML BLEND FUND	EQUITY	GENERAL MILLS INC	84,209.04	1,962	0.02		0
MML BLEND FUND	EQUITY	GOLDMAN SACHS GROUP INC	2,910,635.20	12,980	0.58		0
MML BLEND FUND	EQUITY	PAYCHEX INC	4,713.60	64	0.00		0
MML BLEND FUND	EQUITY	ROSS STORES INC	262,020.40	2,644	0.05		0
MML BLEND FUND	EQUITY	SCHLUMBERGER LTD	276,028.52	4,531	0.06		0
MML BLEND FUND	EQUITY	KIMBERLY CLARK CORP	834,685.80	7,345	0.17		0
MML BLEND FUND	EQUITY	MASCO CORP	915.00	25	0.00		0
MML BLEND FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	1,759,302.42	12,918	0.35		0
MML BLEND FUND	EQUITY	TORCHMARK CORP	284,516.58	3,282	0.06		0
MML BLEND FUND	EQUITY	BANK OF AMERICA CORP	5,603,233.08	190,198	1.12		0
MML BLEND FUND	EQUITY	EMERSON ELECTRIC CO	372,868.02	4,869	0.07		0
MML BLEND FUND	EQUITY	WW GRAINGER INC	383,143.52	1,072	0.08		0
MML BLEND FUND	EQUITY	HARRIS CORP	130,291.70	770	0.03		0
MML BLEND FUND	EQUITY	CADENCE DESIGN SYS INC	163,152.00	3,600	0.03		0
MML BLEND FUND	EQUITY	COSTCO WHOLESALE CORP	1,731,065.60	7,370	0.35		0
MML BLEND FUND	EQUITY	INTEL CORP	7,775,563.67	164,423	1.56		0
MML BLEND FUND	EQUITY	JOHNSON + JOHNSON	7,892,546.74	57,122	1.58		0
MML BLEND FUND	EQUITY	ELI LILLY + CO	1,782,848.34	16,614	0.36		0
MML BLEND FUND	EQUITY	MCDONALD S CORP	341,271.60	2,040	0.07		0
MML BLEND FUND	EQUITY	STATE STREET CORP	550,937.28	6,576	0.11		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	SYNOPSIS INC	59,166.00	600	0.01		0
MML BLEND FUND	EQUITY	TARGET CORP	1,524,798.06	17,286	0.31		0
MML BLEND FUND	EQUITY	UNITED TECHNOLOGIES CORP	2,032,837.40	14,540	0.41		0
MML BLEND FUND	EQUITY	INTL BUSINESS MACHINES CORP	2,274,198.40	15,040	0.46		0
MML BLEND FUND	CASH	US DOLLAR	0.12	0	0.00		0
MML BLEND FUND	EQUITY	EDWARDS LIFESCIENCES CORP	5,223.00	30	0.00		0
MML BLEND FUND	EQUITY	ABBOTT LABORATORIES	1,437,929.36	19,601	0.29		0
MML BLEND FUND	EQUITY	BRISTOL MYERS SQUIBB CO	1,289,215.36	20,767	0.26		0
MML BLEND FUND	EQUITY	ILLINOIS TOOL WORKS	40,219.20	285	0.01		0
MML BLEND FUND	EQUITY	LOWE S COS INC	10,907.90	95	0.00		0
MML BLEND FUND	EQUITY	MARSH + MCLENNAN COS	480,851.36	5,813	0.10		0
MML BLEND FUND	EQUITY	MATTEL INC	1,413.00	90	0.00		0
MML BLEND FUND	EQUITY	NUCOR CORP	764,953.20	12,056	0.15		0
MML BLEND FUND	EQUITY	SYSCO CORP	390,715.50	5,334	0.08		0
MML BLEND FUND	EQUITY	TEXAS INSTRUMENTS INC	2,389,777.46	22,274	0.48		0
MML BLEND FUND	EQUITY	TEXTRON INC	333,907.84	4,672	0.07		0
MML BLEND FUND	EQUITY	QUEST DIAGNOSTICS INC	357,074.19	3,309	0.07		0
MML BLEND FUND	EQUITY	AMETEK INC	609,224.00	7,700	0.12		0
MML BLEND FUND	EQUITY	ANSYS INC	438,698.00	2,350	0.09		0
MML BLEND FUND	EQUITY	APPLIED MATERIALS INC	74,942.35	1,939	0.02		0
MML BLEND FUND	EQUITY	CABOT OIL + GAS CORP	1,080.96	48	0.00		0
MML BLEND FUND	EQUITY	CELGENE CORP	1,447,590.24	16,176	0.29		0
MML BLEND FUND	EQUITY	COGNIZANT TECH SOLUTIONS A	791,250.40	10,256	0.16		0
MML BLEND FUND	EQUITY	COOPER COS INC/THE	343,666.00	1,240	0.07		0
MML BLEND FUND	EQUITY	FLIR SYSTEMS INC	175,312.44	2,852	0.04		0
MML BLEND FUND	EQUITY	FLOWSERVE CORP	3,828.30	70	0.00		0
MML BLEND FUND	EQUITY	STERICYCLE INC	5,691.96	97	0.00		0
MML BLEND FUND	EQUITY	VARIAN MEDICAL SYSTEMS INC	783.51	7	0.00		0
MML BLEND FUND	EQUITY	BOEING CO/THE	6,802,794.80	18,292	1.36		0
MML BLEND FUND	EQUITY	CORNING INC	1,446,135.10	40,967	0.29		0
MML BLEND FUND	EQUITY	DOVER CORP	457,965.69	5,173	0.09		0
MML BLEND FUND	EQUITY	EQUIFAX INC	17,235.24	132	0.00		0
MML BLEND FUND	EQUITY	FISERV INC	276,137.76	3,352	0.06		0
MML BLEND FUND	EQUITY	HALLIBURTON CO	724,149.51	17,867	0.15		0
MML BLEND FUND	EQUITY	HERSHEY CO/THE	167,994.00	1,647	0.03		0
MML BLEND FUND	EQUITY	KLA TENCOR CORP	1,045,477.09	10,279	0.21		0
MML BLEND FUND	EQUITY	KOHL'S CORP	1,940,536.50	26,030	0.39		0
MML BLEND FUND	EQUITY	PPG INDUSTRIES INC	873.04	8	0.00		0
MML BLEND FUND	EQUITY	QUALCOMM INC	2,528,253.00	35,100	0.51		0
MML BLEND FUND	EQUITY	ROCKWELL AUTOMATION INC	92,447.36	493	0.02		0
MML BLEND FUND	EQUITY	SOUTHWEST AIRLINES CO	648,418.35	10,383	0.13		0
MML BLEND FUND	EQUITY	SUNTRUST BANKS INC	1,582,923.00	23,700	0.32		0
MML BLEND FUND	EQUITY	TJX COMPANIES INC	347,934.12	3,106	0.07		0
MML BLEND FUND	EQUITY	VULCAN MATERIALS CO	556.00	5	0.00		0
MML BLEND FUND	EQUITY	WEYERHAEUSER CO	665,601.02	20,626	0.13		0
MML BLEND FUND	EQUITY	WILLIAMS COS INC	1,305.12	48	0.00		0
MML BLEND FUND	EQUITY	XILINX INC	301,118.52	3,756	0.06		0
MML BLEND FUND	EQUITY	VERISIGN INC	478,918.92	2,991	0.10		0
MML BLEND FUND	EQUITY	HARTFORD FINANCIAL SVCS GRP	297,361.92	5,952	0.06		0
MML BLEND FUND	EQUITY	HUMANA INC	1,470,530.88	4,344	0.29		0
MML BLEND FUND	EQUITY	INTERNATIONAL PAPER CO	176,301.05	3,587	0.04		0
MML BLEND FUND	EQUITY	KEYCORP	651,675.96	32,764	0.13		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	LAM RESEARCH CORP	180,978.10	1,193	0.04		0
MML BLEND FUND	EQUITY	LOCKHEED MARTIN CORP	529,318.80	1,530	0.11		0
MML BLEND FUND	EQUITY	NORFOLK SOUTHERN CORP	1,410,246.50	7,813	0.28		0
MML BLEND FUND	EQUITY	NORTHROP GRUMMAN CORP	110,444.76	348	0.02		0
MML BLEND FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	1,094,093.55	13,315	0.22		0
MML BLEND FUND	EQUITY	P G + E CORP	2,177,009.16	47,316	0.44		0
MML BLEND FUND	EQUITY	PPL CORP	339,942.68	11,618	0.07		0
MML BLEND FUND	EQUITY	PIONEER NATURAL RESOURCES CO	946,025.89	5,431	0.19		0
MML BLEND FUND	EQUITY	PUBLIC SERVICE ENTERPRISE GP	75,172.96	1,424	0.02		0
MML BLEND FUND	EQUITY	PULTEGROUP INC	1,416,175.21	57,173	0.28		0
MML BLEND FUND	EQUITY	SCANA CORP	114,608.83	2,947	0.02		0
MML BLEND FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	969,241.68	3,971	0.19		0
MML BLEND FUND	EQUITY	MARATHON OIL CORP	2,482,276.56	106,627	0.50		0
MML BLEND FUND	EQUITY	UNION PACIFIC CORP	2,721,214.96	16,712	0.55		0
MML BLEND FUND	EQUITY	UNITED RENTALS INC	1,163,196.00	7,110	0.23		0
MML BLEND FUND	EQUITY	VALERO ENERGY CORP	1,187,550.00	10,440	0.24		0
MML BLEND FUND	EQUITY	HOLOGIC INC	57,372.00	1,400	0.01		0
MML BLEND FUND	EQUITY	WESTERN DIGITAL CORP	418,385.38	7,147	0.08		0
MML BLEND FUND	EQUITY	AMPHENOL CORP CL A	400,901.28	4,264	0.08		0
MML BLEND FUND	EQUITY	APARTMENT INVT + MGMT CO A	3,751.05	85	0.00		0
MML BLEND FUND	EQUITY	BALL CORP	175.96	4	0.00		0
MML BLEND FUND	EQUITY	ESSEX PROPERTY TRUST INC	370,065.00	1,500	0.07		0
MML BLEND FUND	EQUITY	GILEAD SCIENCES INC	4,216,438.10	54,610	0.85		0
MML BLEND FUND	EQUITY	NVIDIA CORP	156,247.12	556	0.03		0
MML BLEND FUND	EQUITY	SYMANTEC CORP	1,170.40	55	0.00		0
MML BLEND FUND	EQUITY	UNIVERSAL HEALTH SERVICES B	6,392.00	50	0.00		0
MML BLEND FUND	EQUITY	BECTON DICKINSON AND CO	63,162.00	242	0.01		0
MML BLEND FUND	EQUITY	CENTURYLINK INC	593.60	28	0.00		0
MML BLEND FUND	EQUITY	CLOROX COMPANY	108,746.43	723	0.02		0
MML BLEND FUND	EQUITY	CONAGRA BRANDS INC	264,082.78	7,774	0.05		0
MML BLEND FUND	EQUITY	FRANKLIN RESOURCES INC	194,228.67	6,387	0.04		0
MML BLEND FUND	EQUITY	GENERAL DYNAMICS CORP	123,241.44	602	0.02		0
MML BLEND FUND	EQUITY	HASBRO INC	48,460.32	461	0.01		0
MML BLEND FUND	EQUITY	HONEYWELL INTERNATIONAL INC	2,483,020.80	14,922	0.50		0
MML BLEND FUND	EQUITY	PROCTER + GAMBLE CO/THE	4,471,864.67	53,729	0.90		0
MML BLEND FUND	EQUITY	AES CORP	782,418.00	55,887	0.16		0
MML BLEND FUND	EQUITY	AMGEN INC	4,836,282.99	23,331	0.97		0
MML BLEND FUND	EQUITY	APPLE INC	26,264,171.78	116,347	5.27		0
MML BLEND FUND	EQUITY	BEST BUY CO INC	1,824,645.12	22,992	0.37		0
MML BLEND FUND	EQUITY	BOSTON SCIENTIFIC CORP	11,550.00	300	0.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	ORACLE CORP	2,776,866.92	53,857	0.56		0
MML BLEND FUND	EQUITY	PFIZER INC	7,317,426.87	166,041	1.47		0
MML BLEND FUND	EQUITY	PRAXAIR INC	1,082,677.28	6,736	0.22		0
MML BLEND FUND	EQUITY	WALMART INC	3,786,639.02	40,322	0.76		0
MML BLEND FUND	EQUITY	WATERS CORP	299,807.20	1,540	0.06		0
MML BLEND FUND	EQUITY	WELLS FARGO + CO	915,384.96	17,416	0.18		0
MML BLEND FUND	EQUITY	BAXTER INTERNATIONAL INC	721,639.49	9,361	0.14		0
MML BLEND FUND	EQUITY	H+R BLOCK INC	1,786,097.25	69,363	0.36		0
MML BLEND FUND	EQUITY	GENUINE PARTS CO	3,379.60	34	0.00		0
MML BLEND FUND	EQUITY	AMERICAN ELECTRIC POWER	594,328.80	8,385	0.12		0
MML BLEND FUND	EQUITY	APACHE CORP	1,001.07	21	0.00		0
MML BLEND FUND	EQUITY	ARCHER DANIELS MIDLAND CO	4,624.84	92	0.00		0
MML BLEND FUND	EQUITY	CMS ENERGY CORP	387,247.00	7,903	0.08		0
MML BLEND FUND	EQUITY	CSX CORP	2,214,613.35	29,907	0.44		0
MML BLEND FUND	EQUITY	CINCINNATI FINANCIAL CORP	339,423.39	4,419	0.07		0
MML BLEND FUND	EQUITY	CONSOLIDATED EDISON INC	166,246.58	2,182	0.03		0
MML BLEND FUND	EQUITY	CUMMINS INC	485,682.75	3,325	0.10		0
MML BLEND FUND	EQUITY	DR HORTON INC	200,228.46	4,747	0.04		0
MML BLEND FUND	EQUITY	DTE ENERGY COMPANY	329,572.60	3,020	0.07		0
MML BLEND FUND	EQUITY	DEVON ENERGY CORP	5,871.18	147	0.00		0
MML BLEND FUND	EQUITY	DOMINION ENERGY INC	120,600.48	1,716	0.02		0
MML BLEND FUND	EQUITY	EASTMAN CHEMICAL CO	581,020.40	6,070	0.12		0
MML BLEND FUND	EQUITY	ENTERGY CORP	421,713.74	5,198	0.08		0
MML BLEND FUND	EQUITY	TOTAL SYSTEM SERVICES INC	810,359.18	8,207	0.16		0
MML BLEND FUND	EQUITY	VENTAS INC	55,739.50	1,025	0.01		0
MML BLEND FUND	EQUITY	RED HAT INC	136.28	1	0.00		0
MML BLEND FUND	EQUITY	F5 NETWORKS INC	2,065,991.20	10,360	0.41		0
MML BLEND FUND	EQUITY	INTUIT INC	1,259,796.00	5,540	0.25		0
MML BLEND FUND	EQUITY	HUNTINGTON BANCSHARES INC	101,456.00	6,800	0.02		0
MML BLEND FUND	EQUITY	STRYKER CORP	30,205.60	170	0.01		0
MML BLEND FUND	EQUITY	ESTEE LAUDER COMPANIES CL A	1,149,481.20	7,910	0.23		0
MML BLEND FUND	EQUITY	CITRIX SYSTEMS INC	1,982,760.92	17,837	0.40		0
MML BLEND FUND	EQUITY	NORTHERN TRUST CORP	1,405,206.67	13,759	0.28		0
MML BLEND FUND	EQUITY	NORDSTROM INC	138,041.48	2,308	0.03		0
MML BLEND FUND	EQUITY	KELLOGG CO	590,128.56	8,428	0.12		0
MML BLEND FUND	EQUITY	M + T BANK CORP	994,644.30	6,045	0.20		0
MML BLEND FUND	EQUITY	PACKAGING CORP OF AMERICA	82,267.50	750	0.02		0
MML BLEND FUND	EQUITY	EXPEDITORS INTL WASH INC	9,264.78	126	0.00		0
MML BLEND FUND	EQUITY	NEWMONT MINING CORP	714,834.00	23,670	0.14		0
MML BLEND FUND	EQUITY	FIFTH THIRD BANCORP	1,198,354.32	42,921	0.24		0
MML BLEND FUND	EQUITY	FREEMONT MCMORAN INC	986,426.88	70,864	0.20		0
MML BLEND FUND	EQUITY	BB+T CORP	153,677.64	3,166	0.03		0
MML BLEND FUND	EQUITY	COMERICA INC	1,517,254.20	16,821	0.30		0
MML BLEND FUND	EQUITY	SEMPRA ENERGY	253,776.25	2,231	0.05		0
MML BLEND FUND	EQUITY	PROGRESSIVE CORP	1,286,818.56	18,114	0.26		0
MML BLEND FUND	EQUITY	AMAZON.COM INC	15,783,640.00	7,880	3.17		0
MML BLEND FUND	EQUITY	MCKESSON CORP	998,191.25	7,525	0.20		0
MML BLEND FUND	EQUITY	CINTAS CORP	371,487.18	1,878	0.07		0
MML BLEND FUND	EQUITY	ROBERT HALF INTL INC	1,226,441.88	17,426	0.25		0
MML BLEND FUND	EQUITY	FASTENAL CO	4,757.64	82	0.00		0
MML BLEND FUND	EQUITY	EBAY INC	686,056.54	20,777	0.14		0
MML BLEND FUND	EQUITY	BROWN FORMAN CORP CLASS B	758.25	15	0.00		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	EQUITY	BORGWARNER INC	1,424,574.00	33,300	0.29		0
MML BLEND FUND	EQUITY	EOG RESOURCES INC	826,398.46	6,478	0.17		0
MML BLEND FUND	EQUITY	EDISON INTERNATIONAL	28,831.68	426	0.01		0
MML BLEND FUND	EQUITY	LINCOLN NATIONAL CORP	700,348.66	10,351	0.14		0
MML BLEND FUND	EQUITY	LOEWS CORP	1,043,930.09	20,783	0.21		0
MML BLEND FUND	EQUITY	NISOURCE INC	17,767.96	713	0.00		0
MML BLEND FUND	EQUITY	PINNACLE WEST CAPITAL	110,535.28	1,396	0.02		0
MML BLEND FUND	EQUITY	SOUTHERN CO/THE	1,173,799.20	26,922	0.24		0
MML BLEND FUND	EQUITY	UNUM GROUP	106,700.17	2,731	0.02		0
MML BLEND FUND	EQUITY	DARDEN RESTAURANTS INC	295,098.26	2,654	0.06		0
MML BLEND FUND	EQUITY	MID AMERICA APARTMENT COMM	6,010.80	60	0.00		0
MML BLEND FUND	EQUITY	PERKINELMER INC	264,574.40	2,720	0.05		0
MML BLEND FUND	EQUITY	ROPER TECHNOLOGIES INC	196,387.23	663	0.04		0
MML BLEND FUND	EQUITY	EVEREST RE GROUP LTD	685,410.00	3,000	0.14		0
MML BLEND FUND	EQUITY	ALASKA AIR GROUP INC	20,658.00	300	0.00		0
MML BLEND FUND	EQUITY	ALBEMARLE CORP	509,875.80	5,110	0.10		0
MML BLEND FUND	EQUITY	ALLSTATE CORP	1,187,854.50	12,035	0.24		0
MML BLEND FUND	EQUITY	AMEREN CORPORATION	41,725.20	660	0.01		0
MML BLEND FUND	EQUITY	FIRSTENERGY CORP	21,558.60	580	0.00		0
MML BLEND FUND	EQUITY	GOODYEAR TIRE + RUBBER CO	101,769.89	4,351	0.02		0
MML BLEND FUND	EQUITY	HELMERICH + PAYNE	4,126.20	60	0.00		0
MML BLEND FUND	FIXED INCOME	FNMA POOL 252981	7,950.95	7,063	0.00	7.5	1/1/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL 522769	70.63	62	0.00	7.5	12/1/2029
MML BLEND FUND	FIXED INCOME	FNMA POOL 535351	2,923.62	2,562	0.00	8	6/1/2030
MML BLEND FUND	CASH	US DOLLAR	438,813.18	438,813	0.18		0
MML BLEND FUND	CASH	EURO CURRENCY	6.99	6	0.00		0
MML BLEND FUND	FIXED INCOME	FNMA POOL 253481	2,301.64	2,015	0.00	8	10/1/2030
MML BLEND FUND	FIXED INCOME	FREDDIE MAC	75,272.04	69,746	0.03	5.5	3/15/2038
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	534,769.09	547,414	0.22	2.50531	1/25/2041
MML BLEND FUND	EQUITY	CCBRICIUS4 SWBC BRC	(790,000.00)	(790,000)	0.33		0
MML BLEND FUND	EQUITY	SWAP CREDIT SUISSE BOC	(900,000.00)	(900,000)	0.37		0
MML BLEND FUND	FIXED INCOME	TIME WARNER CABLE LLC	66,342.95	65,000	0.03	8.75	2/14/2019
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	35,520.00	37,000	0.01	6.625	6/15/2038
MML BLEND FUND	FIXED INCOME	USF+G CAPITAL I	206,492.30	150,000	0.09	8.5	12/15/2045
MML BLEND FUND	FIXED INCOME	GNMA POOL 352021	2,034.38	1,915	0.00	7	11/15/2023
MML BLEND FUND	FIXED INCOME	FNMA POOL 524317	1,160.74	1,025	0.00	7.5	3/1/2030
MML BLEND FUND	FIXED INCOME	GNMA POOL 363066	3,728.63	3,503	0.00	7	8/15/2023
MML BLEND FUND	FIXED INCOME	FNMA POOL 526380	3,857.14	3,366	0.00	8	5/1/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL 536949	1,620.39	1,408	0.00	8	5/1/2030
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL C00470	15,085.27	13,557	0.01	8	8/1/2026
MML BLEND FUND	FIXED INCOME	SPRINT COMMUNICATIONS	465,350.00	410,000	0.19	9.25	4/15/2022
MML BLEND FUND	FIXED INCOME	GNMA POOL 354674	3,440.81	3,235	0.00	7	10/15/2023
MML BLEND FUND	FIXED INCOME	GNMA POOL 337539	439.59	414	0.00	7	7/15/2023
MML BLEND FUND	FIXED INCOME	FNMA POOL 499386	1,320.29	1,173	0.00	7.5	9/1/2029
MML BLEND FUND	FIXED INCOME	FNMA POOL 531196	991.01	883	0.00	7.5	2/1/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL 530299	265.82	242	0.00	7.5	3/1/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL 253265	1,652.13	1,485	0.00	7.5	5/1/2030
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL G00924	14,727.09	13,225	0.01	8	3/1/2028
MML BLEND FUND	FIXED INCOME	FNMA POOL 521006	505.49	447	0.00	7.5	12/1/2029
MML BLEND FUND	FIXED INCOME	FNMA POOL 253183	3,185.92	2,834	0.00	7.5	4/1/2030
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL C01079	6,928.13	6,123	0.00	7.5	10/1/2030
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL C01135	22,116.10	19,596	0.01	7.5	2/1/2031

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	FNMA POOL 253795	56,155.19	50,160	0.02	7	5/1/2031
MML BLEND FUND	FIXED INCOME	FNMA POOL 602008	2,732.16	2,402	0.00	8	8/1/2031
MML BLEND FUND	FIXED INCOME	PROGRESS ENERGY INC	31,178.33	25,000	0.01	7	10/30/2031
MML BLEND FUND	FIXED INCOME	FNMA POOL 190317	899.51	790	0.00	8	8/1/2031
MML BLEND FUND	FIXED INCOME	FNMA POOL 596656	494.49	480	0.00	8	8/1/2031
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL C55867	45,557.88	41,388	0.02	7.5	2/1/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL 572844	25,292.32	22,492	0.01	7	4/1/2031
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	350,000.00	350,000	0.15	4.48	6/17/2030
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	50,000.00	50,000	0.02	4.49	6/17/2030
MML BLEND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	2,949.45	2,944	0.00	4.54421	7/25/2033
MML BLEND FUND	FIXED INCOME	FNMA TBA 30 YR 4.5	1,856,812.50	1,800,000	0.77	4.5	10/11/2048
MML BLEND FUND	FIXED INCOME	FNMA TBA 30 YR 4	2,297,039.06	2,275,000	0.96	4	10/11/2048
MML BLEND FUND	FIXED INCOME	FREDDIE MAC	379,366.19	354,881	0.16	5.5	10/15/2033
MML BLEND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	19,878.52	19,777	0.01	3.715432	2/25/2034
MML BLEND FUND	FIXED INCOME	STRUCTURED ADJUSTABLE RATE MOR	23,438.48	23,320	0.01	4.32424	3/25/2034
MML BLEND FUND	FIXED INCOME	WAMU MORTGAGE PASS THROUGH CER	69,162.82	66,624	0.03	3.244984	4/25/2044
MML BLEND FUND	FIXED INCOME	COUNTRYWIDE ASSET BACKED CERTI	12,828.40	12,845	0.01	2.67581	9/25/2034
MML BLEND FUND	FIXED INCOME	ERAC USA FINANCE LLC	93,394.58	78,000	0.04	6.7	6/1/2034
MML BLEND FUND	FIXED INCOME	INDYMAC INDX MORTGAGE LOAN TRU	42,626.18	43,487	0.02	3.93952	8/25/2034
MML BLEND FUND	FIXED INCOME	UNITED MEXICAN STATES	191,200.00	160,000	0.08	6.75	9/27/2034
MML BLEND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	3,728.32	3,852	0.00	3.21604	2/25/2034
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	160,000.00	160,000	0.07	4.08	3/15/2028
MML BLEND FUND	FIXED INCOME	GRUPO TELEVISA SAB	197,426.23	175,000	0.08	6.625	3/18/2025
MML BLEND FUND	FIXED INCOME	FNMA POOL 564594	11,027.02	9,914	0.00	7	1/1/2031
MML BLEND FUND	FIXED INCOME	MORGAN STANLEY MORTGAGE LOAN T	245.57	229	0.00	4.37498	2/25/2034
MML BLEND FUND	FIXED INCOME	GOAL CAPITAL FUNDING TRUST	138,031.40	146,733	0.06	2.76138	8/25/2042
MML BLEND FUND	FIXED INCOME	XCEL ENERGY INC	304,172.96	240,000	0.13	6.5	7/1/2036
MML BLEND FUND	FIXED INCOME	ANADARKO PETROLEUM CORP	285,269.59	250,000	0.12	6.45	9/15/2036
MML BLEND FUND	FIXED INCOME	NEVADA POWER CO	170,647.28	135,000	0.07	6.65	4/1/2036
MML BLEND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	231,829.59	212,000	0.10	5.95	1/15/2027
MML BLEND FUND	FIXED INCOME	VALE OVERSEAS LIMITED	267,076.00	230,000	0.11	6.875	11/21/2036
MML BLEND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	3,873.39	4,251	0.00	3.991	9/25/2033
MML BLEND FUND	FIXED INCOME	GSR MORTGAGE LOAN TRUST	5,975.90	6,016	0.00	4.10491	8/25/2034
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	319,881.35	320,677	0.13	2.47531	10/25/2028
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	381,496.31	407,915	0.16	2.62531	1/25/2044
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,674,752.78	1,740,000	0.70	2.48531	3/25/2044
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	156,677.19	171,009	0.07	2.48531	4/25/2040
MML BLEND FUND	FIXED INCOME	BANK OF AMERICA CORP	253,010.93	220,000	0.11	6.11	1/29/2037
MML BLEND FUND	FIXED INCOME	KINDER MORGAN ENER PART	134,601.22	120,000	0.06	6.5	2/1/2037
MML BLEND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	74,536.94	74,498	0.03	5.466	6/12/2047
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	195,134.40	200,000	0.08	2.594	3/22/2032
MML BLEND FUND	FIXED INCOME	PACIFIC GAS + ELECTRIC	133,858.99	120,000	0.06	5.8	3/1/2037
MML BLEND FUND	FIXED INCOME	KINDER MORGAN ENER PART	12,121.79	10,000	0.01	6.95	1/15/2038
MML BLEND FUND	FIXED INCOME	TIAA SEASONED COMMERCIAL MORTG	11,591.49	11,538	0.00	5.48075	8/15/2039
MML BLEND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	240,591.06	200,000	0.10	6.75	10/1/2037
MML BLEND FUND	FIXED INCOME	ENCANA CORP	93,762.68	80,000	0.04	6.5	2/1/2038
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	129,000.00	129,000	0.05	4.088	3/15/2028
MML BLEND FUND	FIXED INCOME	FANNIE MAE BENCHMARK REMIC	97,243.50	92,159	0.04	5.5	6/25/2037
MML BLEND FUND	FIXED INCOME	FANNIE MAE	119,994.97	111,272	0.05	5.5	4/25/2037
MML BLEND FUND	FIXED INCOME	FNMA POOL 888586	68,697.92	66,236	0.03	3.976	10/1/2034
MML BLEND FUND	FIXED INCOME	AAMES MORTGAGE INVESTMENT TRUS	62,670.53	63,129	0.03	3.94081	1/25/2035
MML BLEND FUND	FIXED INCOME	ISRAEL ELECTRIC CORP LTD	201,874.00	200,000	0.08	7.25	1/15/2019

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	GNMA POOL 362651	2,721.14	2,654	0.00	7	10/15/2023
MML BLEND FUND	FIXED INCOME	FNMA POOL 530520	11,989.59	10,716	0.00	7.5	3/1/2030
MML BLEND FUND	FIXED INCOME	BANK OF AMERICA CORP	128,228.11	95,000	0.05	7.75	5/14/2038
MML BLEND FUND	FIXED INCOME	UNITED TECHNOLOGIES CORP	94,373.78	80,000	0.04	6.125	7/15/2038
MML BLEND FUND	FIXED INCOME	US TREASURY N/B	410,779.67	390,000	0.17	3.5	2/15/2039
MML BLEND FUND	FIXED INCOME	TIME WARNER CABLE LLC	46,150.20	45,000	0.02	8.25	4/1/2019
MML BLEND FUND	FIXED INCOME	CALIFORNIA ST	620,321.50	425,000	0.26	7.55	4/1/2039
MML BLEND FUND	FIXED INCOME	ONCOR ELECTRIC DELIVERY	56,210.76	40,000	0.02	7.5	9/1/2038
MML BLEND FUND	FIXED INCOME	BARCLAYS BANK PLC	216,452.79	190,000	0.09	10.179	6/12/2021
MML BLEND FUND	FIXED INCOME	TIME WARNER CABLE LLC	119,965.55	110,000	0.05	6.75	6/15/2039
MML BLEND FUND	FIXED INCOME	CITIGROUP INC	129,911.89	90,000	0.05	8.125	7/15/2039
MML BLEND FUND	FIXED INCOME	CVS HEALTH CORP	198,603.62	175,000	0.08	6.125	9/15/2039
MML BLEND FUND	FIXED INCOME	CENTURYLINK INC	142,625.00	140,000	0.06	6.15	9/15/2019
MML BLEND FUND	FIXED INCOME	GNMA II TBA 30 YR 4	2,872,230.61	2,825,000	1.20	4	10/18/2048
MML BLEND FUND	FIXED INCOME	WILLIS NORTH AMERICA INC	100,317.14	97,000	0.04	7	9/29/2019
MML BLEND FUND	FIXED INCOME	REPUBLIC OF COLOMBIA	702,150.00	620,000	0.29	6.125	1/18/2041
MML BLEND FUND	FIXED INCOME	CISCO SYSTEMS INC	65,585.26	55,000	0.03	5.5	1/15/2040
MML BLEND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	109,824.07	100,000	0.05	6.5	2/1/2042
MML BLEND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	104,268.59	100,000	0.04	4.948	1/10/2045
MML BLEND FUND	FIXED INCOME	HUGHES SATELLITE SYSTEMS	178,500.00	175,000	0.07	6.5	6/15/2019
MML BLEND FUND	FIXED INCOME	UNITED MEXICAN STATES	691,782.00	724,000	0.29	4.75	3/8/2044
MML BLEND FUND	FIXED INCOME	PLAINS ALL AMER PIPELINE	188,663.87	191,000	0.08	3.65	6/1/2022
MML BLEND FUND	FIXED INCOME	DRUG ROYALTY CORPORATION, INC.	6,915.88	6,923	0.00	5.8	7/15/2024
MML BLEND FUND	FIXED INCOME	MOLSON COORS BREWING CO	59,491.38	60,000	0.02	5	5/1/2042
MML BLEND FUND	FIXED INCOME	ERICSSON LM	496,836.48	500,000	0.21	4.125	5/15/2022
MML BLEND FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	60,194.53	63,199	0.03	2.38844	11/15/2040
MML BLEND FUND	FIXED INCOME	KINROSS GOLD CORP	616,500.00	600,000	0.26	5.125	9/1/2021
MML BLEND FUND	FIXED INCOME	WESTERN GAS PARTNERS	777,590.45	781,000	0.32	4	7/1/2022
MML BLEND FUND	FIXED INCOME	WF RBS COMMERCIAL MORTGAGE TRU	193,395.02	190,000	0.08	4.311	8/15/2045
MML BLEND FUND	FIXED INCOME	FNMA TBA 30 YR 3	1,042,908.62	1,090,000	0.43	3	10/11/2048
MML BLEND FUND	FIXED INCOME	CENOVUS ENERGY INC	191,587.95	200,000	0.08	3	8/15/2022
MML BLEND FUND	FIXED INCOME	GENERAL ELECTRIC CO	463,801.98	520,000	0.19	4.125	10/9/2042
MML BLEND FUND	FIXED INCOME	GLENCORE FINANCE CANADA	146,989.99	149,000	0.06	5.55	10/25/2042
MML BLEND FUND	FIXED INCOME	FAIRWAY OUTDOOR FUNDING LLC	369,702.06	369,940	0.15	4.212	10/15/2042
MML BLEND FUND	FIXED INCOME	COMM MORTGAGE TRUST	192,099.36	195,000	0.08	3.703	10/15/2045
MML BLEND FUND	FIXED INCOME	NATIONAL OILWELL VARCO I	317,487.84	366,000	0.13	3.95	12/1/2042
MML BLEND FUND	FIXED INCOME	MGM RESORTS INTL	440,960.00	416,000	0.18	6.625	12/15/2021
MML BLEND FUND	FIXED INCOME	MYLAN INC	112,529.50	118,000	0.05	3.125	1/15/2023
MML BLEND FUND	FIXED INCOME	TEVA PHARMA FIN IV LLC	194,081.13	200,000	0.08	2.25	3/18/2020
MML BLEND FUND	EQUITY	ALLSTATE CORP	500,000.00	20,000	0.21	0	
MML BLEND FUND	FIXED INCOME	FNMA POOL MA1356	1,626,752.88	1,642,342	0.68	3.5	2/1/2043
MML BLEND FUND	FIXED INCOME	AAMES MORTGAGE INVESTMENT TRUS	10,180.62	10,191	0.00	3.34081	6/25/2035
MML BLEND FUND	FIXED INCOME	JOBSONHO BEVERAGE SYS STWD LIQ	343,746.00	325,000	0.14	4.532	1/1/2035
MML BLEND FUND	FIXED INCOME	QVC INC	283,654.89	280,000	0.12	5.125	7/2/2022
MML BLEND FUND	FIXED INCOME	FNMA POOL AD6996	603,309.31	569,055	0.25	5	7/1/2040
MML BLEND FUND	FIXED INCOME	ARROW ELECTRONICS INC	80,889.30	80,000	0.03	4.5	3/1/2023
MML BLEND FUND	FIXED INCOME	CMS ENERGY CORP	116,329.69	115,000	0.05	4.7	3/31/2043
MML BLEND FUND	FIXED INCOME	FIRST FRANKLIN MTG LOAN ASSET	435,148.31	420,000	0.18	3.94081	1/25/2035
MML BLEND FUND	FIXED INCOME	JPMORGAN CHASE + CO	137,424.28	140,000	0.06	3.375	5/1/2023
MML BLEND FUND	FIXED INCOME	US TREASURY N/B	1,451,240.80	1,530,000	0.60	1.75	5/15/2023
MML BLEND FUND	FIXED INCOME	LYB INTL FINANCE BV	178,614.26	175,000	0.07	5.25	7/15/2043
MML BLEND FUND	FIXED INCOME	INCITEC PIVOT FIN LLC	189,753.17	185,000	0.08	6	12/10/2019

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	GNMA II POOL 082462	69,642.92	67,250	0.03	3.375	1/20/2040
MML BLEND FUND	FIXED INCOME	KINDER MORGAN ENER PART	491,791.36	475,000	0.20	5.3	9/15/2020
MML BLEND FUND	FIXED INCOME	KINDER MORGAN ENER PART	103,060.37	90,000	0.04	6.55	9/15/2040
MML BLEND FUND	FIXED INCOME	FANNIE MAE	79,300.64	75,128	0.03	5.5	5/25/2040
MML BLEND FUND	FIXED INCOME	WENDYS FUNDING LLC	300,108.40	300,700	0.12	4.08	6/15/2045
MML BLEND FUND	FIXED INCOME	WENDYS FUNDING LLC	413,548.51	412,250	0.17	4.497	6/15/2045
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	140,495.96	150,000	0.06	3.71581	6/25/2054
MML BLEND FUND	FIXED INCOME	CREDIT SUISSE AG	373,660.00	350,000	0.16	6.5	8/8/2023
MML BLEND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	197,730.56	200,000	0.08	4.375	8/6/2023
MML BLEND FUND	FIXED INCOME	HILTON GRAND VACATIONS TRUST	30,232.17	30,409	0.01	2.28	1/25/2026
MML BLEND FUND	FIXED INCOME	ALLSTATE CORP	813,700.00	790,000	0.34	5.75	8/15/2053
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	94,800.00	100,000	0.04	3.5	1/30/2023
MML BLEND FUND	FIXED INCOME	QVC INC	148,159.69	150,000	0.06	4.375	3/15/2023
MML BLEND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	181,242.62	149,000	0.08	6.55	9/15/2043
MML BLEND FUND	FIXED INCOME	VALLEY NATIONAL BANCORP	252,223.09	245,000	0.11	5.125	9/27/2023
MML BLEND FUND	FIXED INCOME	WELLS FARGO + COMPANY	170,819.07	159,000	0.07	5.375	11/2/2043
MML BLEND FUND	FIXED INCOME	EDLINC STUDENT LOAN FUNDING TR	320,141.65	270,000	0.13	6.45581	11/26/2040
MML BLEND FUND	FIXED INCOME	WPP FINANCE 2010	208,637.68	204,000	0.09	5.625	11/15/2043
MML BLEND FUND	FIXED INCOME	ENERGY TRANSFER EQUITY	210,500.00	200,000	0.09	5.875	1/15/2024
MML BLEND FUND	FIXED INCOME	VNO MORTGAGE TRUST	242,151.24	240,000	0.10	3.808	12/13/2029
MML BLEND FUND	FIXED INCOME	ARCH CAPITAL GRP US INC	180,138.44	170,000	0.08	5.144	11/1/2043
MML BLEND FUND	FIXED INCOME	LEGG MASON INC	177,019.72	175,000	0.07	5.625	1/15/2044
MML BLEND FUND	FIXED INCOME	DBCCRE MORTGAGE TRUST	169,197.11	165,000	0.07	4.2382	1/10/2034
MML BLEND FUND	FIXED INCOME	WELLS FARGO + COMPANY	121,509.24	110,000	0.05	5.606	1/15/2044
MML BLEND FUND	FIXED INCOME	COMM MORTGAGE TRUST	324,263.40	319,000	0.14	3.961	3/10/2047
MML BLEND FUND	FIXED INCOME	HSBC HOLDINGS PLC	198,938.30	200,000	0.08	4.25	3/14/2024
MML BLEND FUND	FIXED INCOME	MCKESSON CORP	59,862.04	60,000	0.02	4.883	3/15/2044
MML BLEND FUND	FIXED INCOME	LEAR CORP	87,389.86	85,000	0.04	5.375	3/15/2024
MML BLEND FUND	FIXED INCOME	SUNOCO LOGISTICS PARTNER	71,891.67	75,000	0.03	5.3	4/1/2044
MML BLEND FUND	FIXED INCOME	TURKIYE GARANTI BANKASI	434,426.80	445,000	0.18	4.75	10/17/2019
MML BLEND FUND	FIXED INCOME	PLAINS ALL AMER PIPELINE	90,066.56	100,000	0.04	4.7	6/15/2044
MML BLEND FUND	FIXED INCOME	GLENCORE FUNDING LLC	603,678.00	600,000	0.25	4.625	4/29/2024
MML BLEND FUND	FIXED INCOME	ADT SEC CORP	1,176,989.22	1,122,000	0.49	6.25	10/15/2021
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	216,720.24	220,000	0.09	3.71581	6/25/2048
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	DBUBS MORTGAGE TRUST	115,315.95	110,000	0.05	5.471	11/10/2046
MML BLEND FUND	FIXED INCOME	MCKESSON CORP	137,703.12	125,000	0.06	6	3/1/2041
MML BLEND FUND	FIXED INCOME	KINDER MORGAN ENER PART	74,104.42	65,000	0.03	6.375	3/1/2041
MML BLEND FUND	FIXED INCOME	MASTR ASSET BACKED SECURITIES	35,145.78	34,880	0.01	2.93581	3/25/2035
MML BLEND FUND	FIXED INCOME	HOME DEPOT INC	186,741.75	150,000	0.08	5.95	4/1/2041
MML BLEND FUND	FIXED INCOME	WARNER MEDIA LLC	27,032.86	25,000	0.01	6.25	3/29/2041
MML BLEND FUND	FIXED INCOME	NORTH CAROLINA STATE EDUCATION	251,079.88	250,000	0.10	3.13531	7/25/2036
MML BLEND FUND	FIXED INCOME	MORGAN STANLEY CAPITAL I TRUST	258,453.73	250,000	0.11	5.2	6/15/2044
MML BLEND FUND	FIXED INCOME	JPMORGAN CHASE + CO	225,085.03	195,000	0.09	5.6	7/15/2041
MML BLEND FUND	FIXED INCOME	GNMA II TBA 30 YR 3.5	1,888,718.75	1,900,000	0.79	3.5	10/18/2048
MML BLEND FUND	FIXED INCOME	NEWFIELD EXPLORATION CO	209,250.00	200,000	0.09	5.75	1/30/2022
MML BLEND FUND	FIXED INCOME	LEIDOS HOLDINGS INC	844,602.50	835,000	0.35	4.45	12/1/2020
MML BLEND FUND	FIXED INCOME	AMGEN INC	95,383.26	90,000	0.04	5.15	11/15/2041
MML BLEND FUND	FIXED INCOME	NISOURCE INC	193,136.18	175,000	0.08	5.8	2/1/2042
MML BLEND FUND	FIXED INCOME	MARATHON PETROLEUM CORP	198,928.62	170,000	0.08	6.5	3/1/2041
MML BLEND FUND	FIXED INCOME	CVS PASS THROUGH TRUST	285,240.94	266,175	0.12	5.926	1/10/2034
MML BLEND FUND	FIXED INCOME	BLUE VIRGO	104,630.53	104,631	0.04	3	12/15/2022
MML BLEND FUND	FIXED INCOME	IPALCO ENTERPRISES INC	612,084.90	615,000	0.25	3.45	7/15/2020
MML BLEND FUND	FIXED INCOME	BANK OF NOVA SCOTIA	200,096.58	200,000	0.08	4.5	12/16/2025
MML BLEND FUND	FIXED INCOME	PUGET ENERGY INC	337,660.32	350,000	0.14	3.65	5/15/2025
MML BLEND FUND	FIXED INCOME	AMERICAN TOWER CORP	140,161.86	140,000	0.06	4.4	2/15/2026
MML BLEND FUND	FIXED INCOME	ANHEUSER BUSCH INBEV FIN	834,339.77	825,000	0.35	4.9	2/1/2046
MML BLEND FUND	FIXED INCOME	BM1058478 CDS USD R F 3.00000	379,289.56	430,000	0.16	3	5/11/2063
MML BLEND FUND	FIXED INCOME	BM1058478 CDS USD P V 01MEVENT	(430,000.00)	(430,000)	0.18	1	5/11/2063
MML BLEND FUND	FIXED INCOME	BM1058692 CDS USD P V 01MEVENT	(160,000.00)	(160,000)	0.07	1	5/11/2063
MML BLEND FUND	FIXED INCOME	BM1058692 CDS USD R F 3.00000	141,131.00	160,000	0.06	3	5/11/2063
MML BLEND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	180,002.50	178,000	0.07	5.5	2/15/2023
MML BLEND FUND	FIXED INCOME	EXPRESS SCRIPTS HOLDING	181,612.37	180,000	0.08	4.5	2/25/2026
MML BLEND FUND	FIXED INCOME	ANADARKO PETROLEUM CORP	125,831.33	107,000	0.05	6.6	3/15/2046
MML BLEND FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	159,856.77	159,182	0.07	3.968	3/19/2046
MML BLEND FUND	FIXED INCOME	TRINITY ACQUISITION PLC	69,646.98	70,000	0.03	4.4	3/15/2026
MML BLEND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	10,789.65	10,766	0.00	3.85844	7/15/2020
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL G60485	182,419.89	175,062	0.08	4.5	10/1/2041
MML BLEND FUND	FIXED INCOME	FS INVESTMENT CORP	506,888.57	505,000	0.21	4	7/15/2019
MML BLEND FUND	FIXED INCOME	AMERICAN INTL GROUP	188,756.44	200,000	0.08	4.5	7/16/2044
MML BLEND FUND	FIXED INCOME	FREDDIE MAC	210,283.76	195,937	0.09	5.5	5/15/2033
MML BLEND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	142,793.16	145,833	0.06	3.19	7/17/2029
MML BLEND FUND	FIXED INCOME	FREDDIE MAC	347,501.02	352,116	0.14	3	8/15/2043
MML BLEND FUND	FIXED INCOME	FANNIE MAE	194,084.50	192,175	0.08	3.5	5/25/2025
MML BLEND FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	27,598.83	28,174	0.01	2.29	7/9/2029
MML BLEND FUND	FIXED INCOME	SPIRE INC	288,495.44	290,000	0.12	4.7	8/15/2044
MML BLEND FUND	FIXED INCOME	SOUTH CAROLINA STUDENT LOAN CO	291,792.17	290,000	0.12	3.256	1/3/2033
MML BLEND FUND	FIXED INCOME	AMTRUST FINANCIAL SERVIC	479,807.40	495,000	0.20	6.125	8/15/2023
MML BLEND FUND	FIXED INCOME	MARATHON PETROLEUM CORP	96,672.91	100,000	0.04	4.75	9/15/2044
MML BLEND FUND	FIXED INCOME	AMER AIRLN 14 1 B PTT	31,186.73	31,388	0.01	4.375	4/1/2024
MML BLEND FUND	FIXED INCOME	MORGAN STANLEY	595,371.29	600,000	0.25	4.35	9/8/2026
MML BLEND FUND	FIXED INCOME	AMERICAN AIRLINES GROUP	1,397,961.25	1,379,000	0.58	5.5	10/1/2019
MML BLEND FUND	FIXED INCOME	EL PUERTO DE LIVERPOOL	426,648.20	445,000	0.18	3.95	10/2/2024
MML BLEND FUND	FIXED INCOME	ARES FINANCE CO LLC	335,692.99	355,000	0.14	4	10/8/2024
MML BLEND FUND	FIXED INCOME	CAPITAL AUTOMOTIVE REIT	153,961.98	160,000	0.06	3.66	10/15/2044
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	74,080.00	80,000	0.03	6.375	1/23/2045
MML BLEND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	245,692.50	246,000	0.10	5.375	11/15/2024

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	CRONOS CONTAINERS PROGRAM LTD	169,252.58	172,222	0.07	3.27	11/18/2029
MML BLEND FUND	FIXED INCOME	ASSOC BANC CORP	491,489.18	494,000	0.20	4.25	1/15/2025
MML BLEND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	31,105.70	31,122	0.01	2.54	5/20/2027
MML BLEND FUND	FIXED INCOME	ENTERGY LOUISIANA LLC	166,046.64	165,000	0.07	4.95	1/15/2045
MML BLEND FUND	FIXED INCOME	LENNAR CORP	519,870.00	516,000	0.22	4.5	11/15/2019
MML BLEND FUND	FIXED INCOME	ARES CAPITAL CORP	527,078.78	525,000	0.22	3.875	1/15/2020
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	157,326.50	155,000	0.07	3.71581	7/26/2049
MML BLEND FUND	FIXED INCOME	SPIRIT MASTER FUNDING, LLC	159,220.73	159,450	0.07	3.5014	1/20/2045
MML BLEND FUND	FIXED INCOME	BECTON DICKINSON AND CO	221,850.71	225,000	0.09	4.685	12/15/2044
MML BLEND FUND	FIXED INCOME	INGRAM MICRO INC	199,979.70	203,000	0.08	5.45	12/15/2024
MML BLEND FUND	FIXED INCOME	SVB FINANCIAL GROUP	386,760.87	400,000	0.16	3.5	1/29/2025
MML BLEND FUND	FIXED INCOME	AFFILIATED MANAGERS GROU	563,978.80	590,000	0.23	3.5	8/1/2025
MML BLEND FUND	FIXED INCOME	PHILLIPS 66 PARTNERS LP	26,535.03	28,000	0.01	4.68	2/15/2045
MML BLEND FUND	FIXED INCOME	ALLERGAN FUNDING SCS	97,270.91	100,000	0.04	4.55	3/15/2035
MML BLEND FUND	FIXED INCOME	ALLERGAN FUNDING SCS	184,726.47	190,000	0.08	4.75	3/15/2045
MML BLEND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	221,448.30	222,000	0.09	4.862	8/21/2046
MML BLEND FUND	FIXED INCOME	ZIMMER BIOMET HOLDINGS	248,746.97	265,000	0.10	4.45	8/15/2045
MML BLEND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	336,105.54	336,980	0.14	2.44	6/15/2022
MML BLEND FUND	FIXED INCOME	CITIGROUP INC	546,490.12	562,000	0.23	3.875	3/26/2025
MML BLEND FUND	FIXED INCOME	XLIT LTD	105,240.67	100,000	0.04	5.5	3/31/2045
MML BLEND FUND	FIXED INCOME	XLIT LTD	627,102.67	633,000	0.26	4.45	3/31/2025
MML BLEND FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	46,118.25	48,260	0.02	3.26	9/15/2072
MML BLEND FUND	FIXED INCOME	LENNAR CORP	195,000.00	200,000	0.08	4.75	5/30/2025
MML BLEND FUND	FIXED INCOME	AT+T INC	190,413.79	200,000	0.08	3.4	5/15/2025
MML BLEND FUND	FIXED INCOME	AT+T INC	420,272.61	460,000	0.17	4.75	5/15/2046
MML BLEND FUND	FIXED INCOME	ABBVIE INC	158,529.20	165,000	0.07	4.7	5/14/2045
MML BLEND FUND	FIXED INCOME	ENLINK MIDSTREAM PARTNER	331,874.60	350,000	0.14	4.15	6/1/2025
MML BLEND FUND	FIXED INCOME	CNO FINANCIAL GROUP INC	475,462.50	465,000	0.20	5.25	5/30/2025
MML BLEND FUND	FIXED INCOME	MID AMERICA APARTMENTS	147,681.12	155,000	0.06	3.6	6/1/2027
MML BLEND FUND	FIXED INCOME	HOST HOTELS + RESORTS LP	239,279.83	245,000	0.10	3.875	4/1/2024
MML BLEND FUND	FIXED INCOME	NEUBERGER BERMAN GRP/FIN	168,911.61	170,000	0.07	4.5	3/15/2027
MML BLEND FUND	FIXED INCOME	FULTON FINANCIAL CORP	225,045.23	230,000	0.09	3.6	3/16/2022
MML BLEND FUND	FIXED INCOME	HUMANA INC	245,725.21	250,000	0.10	3.95	3/15/2027
MML BLEND FUND	FIXED INCOME	HUMANA INC	127,490.79	125,000	0.05	4.8	3/15/2047
MML BLEND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	149,262.00	150,000	0.06	3.3	5/10/2024
MML BLEND FUND	FIXED INCOME	CAPITAL AUTOMOTIVE REIT	136,280.83	138,017	0.06	4.18	4/15/2047
MML BLEND FUND	FIXED INCOME	TAL ADVANTAGE LLC	356,043.71	352,850	0.15	4.5	4/20/2042
MML BLEND FUND	FIXED INCOME	BANCO SANTANDER SA	188,891.47	200,000	0.08	4.25	4/11/2027
MML BLEND FUND	FIXED INCOME	SBA TOWER TRUST	254,945.05	260,000	0.11	3.168	4/9/2047
MML BLEND FUND	FIXED INCOME	BRE GRAND ISLANDER TIMESHARE I	138,327.83	141,604	0.06	2.94	5/25/2029
MML BLEND FUND	FIXED INCOME	HELIOS ISSUER, LLC	236,499.01	231,862	0.10	4.94	9/20/2049
MML BLEND FUND	FIXED INCOME	BANK OF AMERICA CORP	195,248.45	200,000	0.08	4.244	4/24/2038
MML BLEND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	106,875.00	100	0.04	0	3/25/2033
MML BLEND FUND	FIXED INCOME	AVERY POINT CLO LTD	147,495.45	147,480	0.06	3.45263	1/18/2025
MML BLEND FUND	FIXED INCOME	ICAHN ENTERPRISES/FIN	230,625.00	225,000	0.10	6.25	2/1/2022
MML BLEND FUND	FIXED INCOME	FNMA POOL AV1897	39,847.14	39,531	0.02	3.5	12/1/2028
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL G06057	159,789.37	153,344	0.07	4.5	10/1/2040
MML BLEND FUND	FIXED INCOME	FNMA POOL AV2325	125,748.21	124,749	0.05	3.5	12/1/2028
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	US TREASURY N/B	3,644,960.00	4,180,000	1.52	2.5	5/15/2046
MML BLEND FUND	FIXED INCOME	EARNST STUDENT LOAN PROGRAM L	136,973.09	138,378	0.06	3.02	5/25/2034
MML BLEND FUND	FIXED INCOME	ARCELORMITTAL	327,718.03	320,000	0.14	5.125	6/1/2020
MML BLEND FUND	FIXED INCOME	WELK RESORTS LLC	88,196.79	90,253	0.04	2.79	6/16/2031
MML BLEND FUND	FIXED INCOME	REYNOLDS AMERICAN INC	212,057.84	195,000	0.09	5.85	8/15/2045
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	152,180.61	150,000	0.06	3.71581	10/25/2058
MML BLEND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	79,998.81	75,000	0.03	6.125	12/15/2045
MML BLEND FUND	FIXED INCOME	BM1047901 CDS USD R F 3.00000	441,034.37	500,000	0.18	3	11/17/2045
MML BLEND FUND	FIXED INCOME	CAZENOVIA CREEK FUNDING LLC	15,334.93	15,373	0.01	2	12/10/2023
MML BLEND FUND	FIXED INCOME	BM1047901 CDS USD P V 01MEVENT	(500,000.00)	(500,000)	0.21	1	11/17/2045
MML BLEND FUND	FIXED INCOME	ENTERGY NEW ORLEANS STORE RECO	80,968.63	83,126	0.03	2.67	6/1/2027
MML BLEND FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	89,248.92	90,369	0.04	3.87	3/15/2058
MML BLEND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	147,079.53	145,322	0.06	3.35844	7/15/2027
MML BLEND FUND	FIXED INCOME	SPIRIT AIR 2015 1 PTT A	292,631.83	293,733	0.12	4.1	10/1/2029
MML BLEND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	294,500.51	290,000	0.12	4.5	5/15/2021
MML BLEND FUND	FIXED INCOME	GNMA II POOL 784026	207,778.52	208,356	0.09	3.5	12/20/2044
MML BLEND FUND	FIXED INCOME	HELMERICH + PAYNE INTL	194,301.16	190,000	0.08	4.65	3/15/2025
MML BLEND FUND	FIXED INCOME	ALterna FUNDING LLC	31,723.61	31,753	0.01	2.5	2/15/2024
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL G60172	192,918.21	184,915	0.08	4.5	9/1/2043
MML BLEND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	29,325.36	28,501	0.01	4.11581	10/27/2031
MML BLEND FUND	FIXED INCOME	AUTORIDAD CANAL DE PANAM	216,825.00	210,000	0.09	4.95	7/29/2035
MML BLEND FUND	FIXED INCOME	SBA TOWER TRUST	208,425.00	210,000	0.09	3.156	10/10/2045
MML BLEND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	531,110.05	527,850	0.22	4.474	10/25/2045
MML BLEND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	23,823.06	24,061	0.01	3.08	9/20/2032
MML BLEND FUND	FIXED INCOME	ALLY FINANCIAL INC	484,806.00	485,000	0.20	3.25	11/5/2018
MML BLEND FUND	FIXED INCOME	ARBYS FUNDING LLC	312,214.08	311,200	0.13	4.969	10/30/2045
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q42045	101,454.98	102,375	0.04	3.5	7/1/2046
MML BLEND FUND	FIXED INCOME	ENLINK MIDSTREAM PARTNER	144,457.67	149,000	0.06	4.85	7/15/2026
MML BLEND FUND	FIXED INCOME	COMCAST CORP	178,002.84	220,000	0.07	3.4	7/15/2046
MML BLEND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	204,463.32	212,160	0.09	2.43	2/17/2032
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	436,080.77	433,818	0.18	2.91581	2/25/2070
MML BLEND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	629,599.00	670,000	0.26	2.2	7/21/2021
MML BLEND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	50,170.65	51,000	0.02	1.7	7/19/2019
MML BLEND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	54,678.54	75,000	0.02	4.1	10/1/2046
MML BLEND FUND	FIXED INCOME	FIRST REPUBLIC BANK	636,166.60	685,000	0.26	4.375	8/1/2046
MML BLEND FUND	FIXED INCOME	EARNST STUDENT LOAN PROGRAM L	214,753.01	209,820	0.09	4.06581	10/27/2036
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	418,108.11	407,787	0.17	3.46581	6/25/2065
MML BLEND FUND	FIXED INCOME	WEINGARTEN REALTY INVEST	78,083.39	85,000	0.03	3.25	8/15/2026
MML BLEND FUND	FIXED INCOME	DUKE ENERGY CORP	171,357.27	195,000	0.07	3.75	9/1/2046
MML BLEND FUND	FIXED INCOME	BUNGE LTD FINANCE CORP	264,227.36	292,000	0.11	3.25	8/15/2026
MML BLEND FUND	FIXED INCOME	TCI SYMPHONY CLO	340,980.22	340,000	0.14	3.817	10/13/2029
MML BLEND FUND	FIXED INCOME	FIRST INVESTORS AUTO OWNER TRU	443,580.66	450,000	0.18	2.21	7/15/2022
MML BLEND FUND	FIXED INCOME	ALM LOAN FUNDING	412,118.88	410,000	0.17	3.81919	10/15/2028
MML BLEND FUND	FIXED INCOME	US TREASURY N/B	4,312,895.14	4,600,000	1.80	1.625	10/31/2023
MML BLEND FUND	FIXED INCOME	DIAMONDBACK ENERGY INC	428,535.00	428,000	0.18	4.75	11/1/2024
MML BLEND FUND	FIXED INCOME	EARNST STUDENT LOAN PROGRAM L	182,495.84	186,216	0.08	2.72	1/25/2041
MML BLEND FUND	FIXED INCOME	GOODGREEN TRUST	345,093.86	358,181	0.14	3.23	10/15/2052
MML BLEND FUND	FIXED INCOME	VELOCITY COMMERCIAL CAPITAL LO	177,831.64	179,102	0.07	2.99694	10/25/2046
MML BLEND FUND	FIXED INCOME	LAZARD GROUP LLC	171,594.48	184,000	0.07	3.625	3/1/2027
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q44275	210,163.00	212,135	0.09	3.5	11/1/2046
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q44277	95,535.29	96,615	0.04	3.5	11/1/2046
MML BLEND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	268,545.23	275,225	0.11	3.08	11/20/2028

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	JPMORGAN CHASE + CO	193,337.84	205,000	0.08	3.625	12/1/2027
MML BLEND FUND	FIXED INCOME	PLAINS ALL AMER PIPELINE	209,786.24	210,000	0.09	4.5	12/15/2026
MML BLEND FUND	FIXED INCOME	SPS SERVICER ADVANCE RECEIVABL	665,858.19	670,000	0.28	2.75	11/15/2049
MML BLEND FUND	FIXED INCOME	BANK OF AMERICA CORP	395,292.91	405,000	0.16	4.183	11/25/2027
MML BLEND FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	445,769.87	450,000	0.19	3.1068	12/15/2050
MML BLEND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	241,871.25	225,000	0.10	6.484	10/23/2045
MML BLEND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	270,152.52	270,000	0.11	3.579	7/23/2020
MML BLEND FUND	FIXED INCOME	HERO FUNDING TRUST	203,306.64	207,182	0.08	3.57	9/20/2047
MML BLEND FUND	FIXED INCOME	FORD MOTOR COMPANY	71,252.66	80,000	0.03	5.291	12/8/2046
MML BLEND FUND	FIXED INCOME	TREMAN PARK CLO LTD	490,168.07	490,000	0.20	3.7175	4/20/2027
MML BLEND FUND	FIXED INCOME	NELNET PRIVATE EDUCATION LOAN	132,463.82	137,812	0.06	3.6	12/26/2040
MML BLEND FUND	FIXED INCOME	PBF HOLDING CO LLC	182,000.00	175,000	0.08	7	11/15/2023
MML BLEND FUND	FIXED INCOME	BARCLAYS PLC	246,047.45	260,000	0.10	4.337	1/10/2028
MML BLEND FUND	FIXED INCOME	GOAL CAPITAL FUNDING TRUST	503,778.70	500,000	0.21	3.75	8/25/2051
MML BLEND FUND	FIXED INCOME	CREDIT SUISSE GROUP AG	486,291.32	500,000	0.20	4.282	1/9/2028
MML BLEND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	190,676.17	200,000	0.08	3.81	1/9/2024
MML BLEND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	159,374.20	165,000	0.07	4.2	4/15/2027
MML BLEND FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	189,500.00	200,000	0.08	5.125	5/1/2027
MML BLEND FUND	FIXED INCOME	PARK AEROSPACE HOLDINGS	1,013,793.75	1,005,000	0.42	5.25	8/15/2022
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	99,100.00	100,000	0.04	4.625	9/21/2023
MML BLEND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	66,580.38	66,110	0.03	4.45	6/20/2042
MML BLEND FUND	FIXED INCOME	FNMA POOL BF0105	236,727.19	233,778	0.10	4	6/1/2056
MML BLEND FUND	FIXED INCOME	AT+T INC	94,681.72	95,000	0.04	5.25	3/1/2037
MML BLEND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	275,337.81	300,000	0.11	3.5	6/17/2041
MML BLEND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	725,703.75	771,000	0.30	5	2/15/2027
MML BLEND FUND	FIXED INCOME	DISCOVER FINANCIAL SVS	463,607.47	485,000	0.19	4.1	2/9/2027
MML BLEND FUND	FIXED INCOME	MPLX LP	35,070.33	35,000	0.01	5.2	3/1/2047
MML BLEND FUND	FIXED INCOME	SUTTONPARK STRUCTURED SETTLEME	325,714.53	345,814	0.14	4.19	1/15/2071
MML BLEND FUND	FIXED INCOME	RACE POINT CLO LTD	251,162.75	250,000	0.10	3.66225	2/20/2030
MML BLEND FUND	FIXED INCOME	SYMPHONY CLO LTD	430,140.18	430,000	0.18	3.516	10/17/2026
MML BLEND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	270,112.46	270,796	0.11	3.28	2/25/2026
MML BLEND FUND	FIXED INCOME	RPM INTERNATIONAL INC	104,530.71	110,000	0.04	3.75	3/15/2027
MML BLEND FUND	FIXED INCOME	ENSTAR GROUP LTD	140,613.76	140,000	0.06	4.5	3/10/2022
MML BLEND FUND	FIXED INCOME	GNMA POOL AV1854	319,131.57	321,101	0.13	3.5	1/15/2048
MML BLEND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	380,568.28	395,000	0.16	3.3	1/23/2023
MML BLEND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	909,750.54	980,000	0.38	3.875	1/23/2028
MML BLEND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	1,205,951.09	1,240,000	0.50	3.29	2/25/2024
MML BLEND FUND	FIXED INCOME	DEUTSCHE BANK NY	302,933.19	310,000	0.13	3.15	1/22/2021
MML BLEND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	631,525.64	650,000	0.26	3.6	2/25/2024
MML BLEND FUND	FIXED INCOME	VOYA FINANCIAL INC	160,200.00	180,000	0.07	4.7	1/23/2048
MML BLEND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	248,016.61	260,000	0.10	3.814	4/23/2029
MML BLEND FUND	FIXED INCOME	GNMA II POOL BE6487	196,276.03	197,565	0.08	3.5	1/20/2048
MML BLEND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	718,200.00	1,000,000	0.30	0.01	2/25/2042
MML BLEND FUND	FIXED INCOME	DELL INT LLC / EMC CORP	81,231.26	76,000	0.03	6.02	6/15/2026
MML BLEND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	163,345.78	160,843	0.07	3.41581	6/25/2033
MML BLEND FUND	FIXED INCOME	GE CAPITAL INTL FUNDING	188,230.91	200,000	0.08	4.418	11/15/2035
MML BLEND FUND	FIXED INCOME	VALE OVERSEAS LIMITED	499,852.00	475,000	0.21	5.875	6/10/2021
MML BLEND FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	210,307.46	211,706	0.09	3.968	6/17/2024
MML BLEND FUND	FIXED INCOME	WESTJET AIRLINES LTD	115,096.26	117,000	0.05	3.5	6/16/2021
MML BLEND FUND	FIXED INCOME	SBA TOWER TRUST	196,645.24	200,000	0.08	2.877	7/10/2046
MML BLEND FUND	FIXED INCOME	MOLSON COORS BREWING CO	252,523.31	285,000	0.11	4.2	7/15/2046
MML BLEND FUND	FIXED INCOME	FNMA POOL AS1304	248,028.84	246,058	0.10	3.5	12/1/2028

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	EXPRESS SCRIPTS HOLDING	190,318.00	195,000	0.08	4.8	7/15/2046
MML BLEND FUND	FIXED INCOME	HEALTHCARE TRUST OF AMER	349,785.85	375,000	0.15	3.5	8/1/2026
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q41916	253,558.74	255,857	0.11	3.5	7/1/2046
MML BLEND FUND	FIXED INCOME	WESTERN GAS PARTNERS LP	100,720.55	105,000	0.04	4.5	3/1/2028
MML BLEND FUND	FIXED INCOME	PNMAC GMSR ISSUER TRUST	202,314.12	200,000	0.08	5.06581	2/25/2023
MML BLEND FUND	FIXED INCOME	GNMA II POOL BF1269	294,814.92	296,751	0.12	3.5	2/20/2048
MML BLEND FUND	FIXED INCOME	GNMA II POOL BF1270	296,320.16	291,067	0.12	4	2/20/2048
MML BLEND FUND	FIXED INCOME	GALAXY CLO LTD	497,919.00	500,000	0.21	3.3475	4/20/2031
MML BLEND FUND	FIXED INCOME	FNMA POOL BM3564	1,249,727.79	1,304,560	0.52	3	7/1/2047
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	61,290.00	60,000	0.03	6.5	3/13/2027
MML BLEND FUND	FIXED INCOME	TELEFONICA EMISIONES SAU	169,109.53	180,000	0.07	4.665	3/6/2038
MML BLEND FUND	FIXED INCOME	CVS HEALTH CORP	245,482.50	240,000	0.10	5.05	3/25/2048
MML BLEND FUND	FIXED INCOME	CVS HEALTH CORP	171,643.48	173,000	0.07	4.3	3/25/2028
MML BLEND FUND	FIXED INCOME	HIGH STREET FNDG TRUST I	487,650.00	500,000	0.20	4.111	2/15/2028
MML BLEND FUND	FIXED INCOME	PROGRESSIVE CORP	199,500.00	200,000	0.08	5.375	12/31/2099
MML BLEND FUND	FIXED INCOME	AMERICAN INTL GROUP	257,264.15	260,000	0.11	4.2	4/1/2028
MML BLEND FUND	FIXED INCOME	AMERICAN INTL GROUP	412,781.25	425,000	0.17	5.75	4/1/2048
MML BLEND FUND	FIXED INCOME	AMERICAN INTL GROUP	73,729.81	75,000	0.03	4.75	4/1/2048
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	550,735.90	550,000	0.23	2.96581	3/25/2067
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	653,341.98	650,000	0.27	2.97581	5/25/2066
MML BLEND FUND	FIXED INCOME	CRH AMERICA FINANCE INC	503,835.38	520,000	0.21	3.95	4/4/2028
MML BLEND FUND	FIXED INCOME	AMERICAN TOWER TRUST I	304,055.44	310,000	0.13	3.652	3/23/2048
MML BLEND FUND	FIXED INCOME	FNMA POOL BJ0686	816,223.32	807,986	0.34	4	4/1/2048
MML BLEND FUND	FIXED INCOME	DOLLAR TREE INC	310,809.07	320,000	0.13	4.2	5/15/2028
MML BLEND FUND	FUTURE	US LONG BOND(CBT) DEC18	-	(2,900,000)	0.04	0	12/19/2018
MML BLEND FUND	FUTURE	US ULTRA BOND CBT DEC18	-	7,100,000	0.16	0	12/19/2018
MML BLEND FUND	FIXED INCOME	SYNGENTA FINANCE NV	309,296.61	310,000	0.13	3.698	4/24/2020
MML BLEND FUND	FIXED INCOME	SYNGENTA FINANCE NV	397,561.38	400,000	0.17	4.441	4/24/2023
MML BLEND FUND	FUTURE	US 5YR NOTE (CBT) DEC18	-	11,400,000	0.04	0	12/31/2018
MML BLEND FUND	FUTURE	US 2YR NOTE (CBT) DEC18	-	22,400,000	0.03	0	12/31/2018
MML BLEND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	307,366.16	309,225	0.13	4.116	7/25/2048
MML BLEND FUND	FIXED INCOME	BENEFIT STREET PARTNERS CLO LT	259,580.10	260,000	0.11	3.20721	4/20/2031
MML BLEND FUND	FIXED INCOME	CONTINENTAL RESOURCES	258,056.53	260,000	0.11	4.375	1/15/2028
MML BLEND FUND	FIXED INCOME	GOODGREEN TRUST	304,460.72	305,850	0.13	3.93	10/15/2053
MML BLEND FUND	FIXED INCOME	LAUREL ROAD PRIME STUDENT LOAN	139,186.64	140,000	0.06	3.72	5/26/2043
MML BLEND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	457,402.96	465,000	0.19	4.14	2/15/2023
MML BLEND FUND	FIXED INCOME	LENDMARK FUNDING TRUST	279,706.17	280,000	0.12	3.81	12/21/2026
MML BLEND FUND	FIXED INCOME	UNITED AIR 2018 1 B PTT	94,813.14	95,000	0.04	4.6	9/1/2027
MML BLEND FUND	FIXED INCOME	BARCLAYS PLC	343,194.79	345,000	0.14	3.69519	5/16/2024
MML BLEND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	575,834.65	576,694	0.24	4	6/25/2048
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	150,442.95	150,000	0.06	2.87844	12/15/2059
MML BLEND FUND	FIXED INCOME	HERO FUNDING TRUST	453,663.25	444,033	0.19	4.67	9/20/2048
MML BLEND FUND	FIXED INCOME	AMAZON.COM INC	295,520.47	300,000	0.12	4.05	8/22/2047
MML BLEND FUND	FIXED INCOME	HIGHBRIDGE LOAN MANAGEMENT LTD	248,199.50	250,000	0.10	4.2223	7/18/2031
MML BLEND FUND	FIXED INCOME	PSMC 2018 1 TRUST	620,625.34	638,330	0.26	3.5	6/25/2048
MML BLEND FUND	FIXED INCOME	MICROCHIP TECHNOLOGY INC	164,033.32	165,000	0.07	3.922	6/1/2021
MML BLEND FUND	FUTURE	US 10YR ULTRA FUT DEC18	-	(1,400,000)	0.00	0	12/19/2018
MML BLEND FUND	FIXED INCOME	YARA INTERNATIONAL ASA	573,839.51	570,000	0.24	4.75	6/1/2028
MML BLEND FUND	FIXED INCOME	FNMA POOL BM3994	278,992.46	281,666	0.12	3.5	1/1/2044
MML BLEND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	429,976.78	430,000	0.18	3.937	7/15/2030
MML BLEND FUND	FIXED INCOME	FNMA POOL CA1952	561,951.45	544,242	0.23	4.5	6/1/2048
MML BLEND FUND	FIXED INCOME	CASTLELAKE AIRCRAFT STRUCTURED	313,382.30	314,272	0.13	4.125	6/15/2043

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	FNMA POOL CA1951	748,700.29	741,144	0.31	4	7/1/2048
MML BLEND FUND	FIXED INCOME	HSBC HOLDINGS PLC	255,004.01	255,000	0.11	4.583	6/19/2029
MML BLEND FUND	FIXED INCOME	TRITON CONTAINER FINANCE LLC	457,330.93	458,250	0.19	4.19	6/22/2043
MML BLEND FUND	FIXED INCOME	VSE VOI MORTGAGE LLC	206,785.60	212,534	0.09	2.54	7/20/2033
MML BLEND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	683,634.75	690,000	0.28	2.99	12/15/2023
MML BLEND FUND	FIXED INCOME	HERO FUNDING TRUST	192,603.42	199,568	0.08	3.08	9/20/2042
MML BLEND FUND	FIXED INCOME	SPRINGCASTLE SPV	149,219.82	149,878	0.06	3.05	4/25/2029
MML BLEND FUND	FIXED INCOME	MPLX LP	138,761.13	136,000	0.06	5.5	2/15/2023
MML BLEND FUND	FIXED INCOME	FNMA POOL MA2806	4,557,025.54	4,756,967	1.90	3	11/1/2046
MML BLEND FUND	FIXED INCOME	APIDOS CLO	250,047.00	250,000	0.10	3.8075	10/20/2028
MML BLEND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	465,443.02	458,441	0.19	4.11581	10/25/2044
MML BLEND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	457,396.35	458,441	0.19	3.07	10/25/2044
MML BLEND FUND	FIXED INCOME	CNH INDUSTRIAL CAP LLC	698,042.23	700,000	0.29	3.875	10/15/2021
MML BLEND FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	1,604,527.32	1,650,000	0.67	2.8332	10/16/2051
MML BLEND FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	129,891.31	133,265	0.05	2.91	3/8/2029
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q48869	849,550.53	821,938	0.35	4.5	6/1/2047
MML BLEND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	107,276.58	108,900	0.04	4.118	7/25/2047
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	GNMA II POOL MA4778	70,334.14	70,663	0.03	3.5	10/20/2047
MML BLEND FUND	FIXED INCOME	CLEVELAND ELECTRIC ILLUM	146,195.21	155,000	0.06	3.5	4/1/2028
MML BLEND FUND	FIXED INCOME	PLAINS ALL AMERICAN PIPE	374,893.75	385,000	0.16	6.125	12/31/2099
MML BLEND FUND	FIXED INCOME	BANK OF NOVA SCOTIA	389,321.88	415,000	0.16	4.65	12/31/2099
MML BLEND FUND	FIXED INCOME	FNMA POOL CA0620	2,145,149.41	2,121,695	0.89	4	10/1/2047
MML BLEND FUND	FIXED INCOME	MP CLO III, LTD	300,152.40	300,000	0.12	3.5975	10/20/2030
MML BLEND FUND	FIXED INCOME	PHILLIPS 66 PARTNERS LP	128,524.62	135,000	0.05	3.75	3/1/2028
MML BLEND FUND	FIXED INCOME	GNMA II POOL AC2985	115,994.63	113,842	0.05	4	10/20/2047
MML BLEND FUND	FIXED INCOME	CIFC FUNDING LTD	340,104.04	340,000	0.14	3.516	11/16/2030
MML BLEND FUND	FIXED INCOME	BPCE SA	382,751.46	420,000	0.16	3.5	10/23/2027
MML BLEND FUND	FIXED INCOME	BANCO SANTANDER SA	379,625.10	400,000	0.16	3.125	2/23/2023
MML BLEND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	139,654.53	141,877	0.06	3.82	6/22/2043
MML BLEND FUND	FIXED INCOME	HERCULES CAPITAL INC	452,310.38	470,000	0.19	4.625	10/23/2022
MML BLEND FUND	FIXED INCOME	GLENCORE FUNDING LLC	148,324.16	160,000	0.06	3.875	10/27/2027
MML BLEND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	143,549.67	150,000	0.06	3.5	12/16/2041
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	713,218.57	710,000	0.30	2.93581	3/25/2067
MML BLEND FUND	FIXED INCOME	FNMA POOL BF0196	289,392.63	291,430	0.12	3.5	2/1/2041
MML BLEND FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	148,612.07	151,085	0.06	3.202	12/25/2057
MML BLEND FUND	OPTIONS	BM1107614 SWAPTION	629,520.02	11,940,000	0.26	0	1/31/2033
MML BLEND FUND	OPTIONS	BM1107911 SWAPTION	229,649.95	5,990,000	0.10	0	1/31/2033
MML BLEND FUND	FIXED INCOME	ENTERPRISE PRODUCTS OPER	180,601.50	195,000	0.08	5.375	2/15/2078
MML BLEND FUND	FIXED INCOME	PETROLEOS MEXICANOS	179,075.00	190,000	0.07	5.35	2/12/2028
MML BLEND FUND	FIXED INCOME	MPLX LP	183,786.59	195,000	0.08	4.5	4/15/2038
MML BLEND FUND	FIXED INCOME	GNMA POOL BF1214	294,921.89	296,742	0.12	3.5	2/15/2048
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83962	438,898.77	434,318	0.18	4	2/1/2048
MML BLEND FUND	FIXED INCOME	ISRAEL ELECTRIC CORP LTD	403,223.00	425,000	0.17	4.25	8/14/2028
MML BLEND FUND	FIXED INCOME	GNMA POOL BF1245	294,873.17	296,693	0.12	3.5	2/15/2048
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83655	1,800,682.89	1,827,960	0.75	3.5	12/1/2047
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83763	2,186,313.93	2,219,432	0.91	3.5	12/1/2047
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83764	1,922,297.24	1,900,178	0.80	4	12/1/2047
MML BLEND FUND	FIXED INCOME	ANDEAVOR LOGISTICS LP	301,350.00	300,000	0.13	6.875	12/31/2099
MML BLEND FUND	FIXED INCOME	AXIS SPECIALTY FINAN PLC	392,555.01	415,000	0.16	4	12/6/2027
MML BLEND FUND	FIXED INCOME	HERO FUNDING TRUST	224,062.09	233,441	0.09	3.19	9/20/2048
MML BLEND FUND	FIXED INCOME	FNMA POOL MA3287	1,037,681.78	1,062,374	0.43	3.5	2/1/2048
MML BLEND FUND	FIXED INCOME	MARINER FINANCE ISSUANCE TRUST	737,995.50	750,000	0.31	2.92	12/20/2029
MML BLEND FUND	FIXED INCOME	BANK OF MONTREAL	228,913.30	245,000	0.10	3.803	12/15/2032
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83796	2,793,946.46	2,763,078	1.16	4	12/1/2047
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q52834	244,275.45	241,577	0.10	4	12/1/2047
MML BLEND FUND	FIXED INCOME	KDAC AVIATION FINANCE LIMITED	391,814.45	397,019	0.16	4.212	12/15/2042
MML BLEND FUND	FIXED INCOME	ANDEAVOR LLC	79,228.22	85,000	0.03	4.5	4/1/2048
MML BLEND FUND	OPTIONS	BM1105964 SWAPTION	627,197.34	10,790,000	0.26	0	12/13/2032
MML BLEND FUND	FIXED INCOME	GNMA II POOL BE4328	312,689.58	314,298	0.13	3.5	12/20/2047
MML BLEND FUND	OPTIONS	BM1106236 SWAPTION	181,850.90	5,300,000	0.08	0	12/13/2032
MML BLEND FUND	FIXED INCOME	GNMA II POOL BD6940	410,456.40	413,152	0.17	3.5	12/20/2047
MML BLEND FUND	FIXED INCOME	EDLINC STUDENT LOAN FUNDING TR	512,600.43	518,374	0.21	3.35	12/1/2047
MML BLEND FUND	FIXED INCOME	GNMA POOL BF1053	291,946.11	293,748	0.12	3.5	12/15/2047
MML BLEND FUND	FIXED INCOME	IPALCO ENTERPRISES INC	164,889.39	170,000	0.07	3.7	9/1/2024
MML BLEND FUND	FIXED INCOME	FNMA POOL CA1073	3,426,329.67	3,478,921	1.43	3.5	1/1/2048
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL V83886	913,871.18	927,714	0.38	3.5	1/1/2048
MML BLEND FUND	FIXED INCOME	ATHENE HOLDING LTD	775,467.67	830,000	0.32	4.125	1/12/2028
MML BLEND FUND	FIXED INCOME	GNMA II POOL BE6461	372,856.53	375,305	0.16	3.5	1/20/2048
MML BLEND FUND	FIXED INCOME	TENCENT HOLDINGS LTD	212,965.36	225,000	0.09	3.595	1/19/2028

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	GNMA II POOL BD3899	845,700.99	850,051	0.35	3.5	1/20/2048
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	611,374.57	610,000	0.25	2.93531	1/25/2041
MML BLEND FUND	FIXED INCOME	GNMA POOL BF1120	343,600.50	345,721	0.14	3.5	1/15/2048
MML BLEND FUND	FIXED INCOME	GNMA II POOL BF1119	554,833.92	558,477	0.23	3.5	1/20/2048
MML BLEND FUND	FIXED INCOME	TRINITY RAIL LEASING L.P.	413,325.26	410,000	0.17	4.62	6/17/2048
MML BLEND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	234,060.16	235,000	0.10	4.15	6/19/2023
MML BLEND FUND	FIXED INCOME	AVENTURA MALL TRUST	702,377.01	710,000	0.29	4.11232	7/5/2040
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	757,047.83	750,000	0.32	3.01581	3/25/2067
MML BLEND FUND	FIXED INCOME	EQT MIDSTREAM PARTNERS L	502,317.76	495,000	0.21	4.75	7/15/2023
MML BLEND FUND	FIXED INCOME	SHERWIN WILLIAMS CO	100,987.78	105,000	0.04	4.5	6/1/2047
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q48208	118,594.77	114,740	0.05	4.5	5/1/2047
MML BLEND FUND	FIXED INCOME	GNMA II POOL 784314	153,756.45	153,991	0.06	3.5	5/20/2043
MML BLEND FUND	FIXED INCOME	BECTON DICKINSON AND CO	282,089.97	295,000	0.12	3.7	6/6/2027
MML BLEND FUND	FIXED INCOME	ARROW ELECTRONICS INC	135,063.29	145,000	0.06	3.875	1/12/2028
MML BLEND FUND	FIXED INCOME	UDR INC	208,054.53	220,000	0.09	3.5	7/1/2027
MML BLEND FUND	FIXED INCOME	TRITON CONTAINER FINANCE LLC	145,238.80	149,259	0.06	3.52	6/20/2042
MML BLEND FUND	FIXED INCOME	CELGENE CORP	616,134.12	660,000	0.26	3.45	11/15/2027
MML BLEND FUND	FIXED INCOME	CELGENE CORP	179,037.87	200,000	0.07	4.35	11/15/2047
MML BLEND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	485,508.22	515,000	0.20	3.5	11/7/2024
MML BLEND FUND	FIXED INCOME	GNMA II POOL BC4885	650,732.13	653,874	0.27	3.5	11/20/2047
MML BLEND FUND	FIXED INCOME	WAVE 2017 1 LLC	645,716.37	655,130	0.27	3.844	11/15/2042
MML BLEND FUND	FIXED INCOME	MOSAIC CO	282,485.72	292,000	0.12	4.05	11/15/2027
MML BLEND FUND	FIXED INCOME	FIBRIA OVERSEAS FINANCE	231,656.25	250,000	0.10	4	1/14/2025
MML BLEND FUND	FIXED INCOME	GOODGREEN TRUST	413,920.98	429,984	0.17	3.26	10/15/2053
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q52216	617,151.67	626,500	0.26	3.5	11/1/2047
MML BLEND FUND	FIXED INCOME	NP SPE II LLC	377,064.88	380,000	0.16	4.219	10/21/2047
MML BLEND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	370,562.50	385,000	0.15	6.25	12/31/2099
MML BLEND FUND	FIXED INCOME	MARBLE POINT CLO XI LTD	999,613.00	1,000,000	0.42	3.51263	12/18/2030
MML BLEND FUND	FIXED INCOME	PITNEY BOWES INC	462,568.75	485,000	0.19	3.875	10/1/2021
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	357,765.40	377,354	0.15	2.54531	10/25/2040
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	1,140,903.50	1,100,000	0.48	3.51581	3/25/2066
MML BLEND FUND	FIXED INCOME	PENNSYLVANIA HIGHER EDUCATION	430,462.75	424,949	0.18	3.16581	11/25/2065
MML BLEND FUND	FIXED INCOME	ACCESS GROUP INC	394,587.20	400,000	0.16	1.699	7/1/2039
MML BLEND FUND	FIXED INCOME	CROWN CASTLE INTL CORP	116,268.08	120,000	0.05	4	3/1/2027
MML BLEND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	172,708.43	180,000	0.07	3.44	3/26/2040
MML BLEND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	461,718.24	481,021	0.19	3.5	1/25/2047
MML BLEND FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	351,704.23	347,019	0.15	3.41581	12/27/2066
MML BLEND FUND	FIXED INCOME	GOODGREEN TRUST	166,028.03	167,504	0.07	3.74	10/15/2052
MML BLEND FUND	FIXED INCOME	CNA FINANCIAL CORP	171,295.34	185,000	0.07	3.45	8/15/2027
MML BLEND FUND	FIXED INCOME	CLEAR CREEK CLO LTD	480,800.16	480,000	0.20	3.5475	10/20/2030
MML BLEND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	293,335.26	300,000	0.12	4	11/17/2042
MML BLEND FUND	FIXED INCOME	BARCLAYS COMMERCIAL MORTGAGE S	202,268.20	210,000	0.08	4.40871	8/5/2038
MML BLEND FUND	FIXED INCOME	ASSURANT CLO III, LTD	309,371.01	310,000	0.13	4.4086	10/20/2031
MML BLEND FUND	FIXED INCOME	STEELE CREEK CLO LTD	289,978.83	290,000	0.12	4.57325	8/18/2031
MML BLEND FUND	FIXED INCOME	DISCOVER BANK	489,911.40	495,000	0.20	4.682	8/9/2028
MML BLEND FUND	FIXED INCOME	ADVOCATE HEALTH CORP	166,441.66	165,000	0.07	3.829	8/15/2028
MML BLEND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	320,687.85	322,311	0.13	3.7	1/21/2031
MML BLEND FUND	FIXED INCOME	CIT GROUP INC	360,882.00	360,000	0.15	4.75	2/16/2024
MML BLEND FUND	CASH EQUIVALENT	NORTHROP GRUMAN CORP	399,488.48	400,000	0.17	0	10/17/2018
MML BLEND FUND	CASH EQUIVALENT	NORTHROP GRUMAN CORP	999,672.64	1,000,000	0.42	0	10/3/2018
MML BLEND FUND	FIXED INCOME	HIGHBRIDGE LOAN MANAGEMENT LTD	350,000.00	350,000	0.15	1	10/15/2030
MML BLEND FUND	CASH EQUIVALENT	ENTERPRISE PRODS OPER LLC	1,798,666.25	1,800,000	0.75	0	10/9/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	BUNGE LTD FINANCE CORP	346,516.03	350,000	0.14	4.35	3/15/2024
MML BLEND FUND	FIXED INCOME	WILLIS NORTH AMERICA INC	479,864.24	480,000	0.20	4.5	9/15/2028
MML BLEND FUND	FIXED INCOME	PATTERSON UTI ENERGY INC	148,031.54	160,000	0.06	3.95	2/1/2028
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	749,983.73	750,000	0.31	3.43894	6/27/2067
MML BLEND FUND	FIXED INCOME	HILTON GRAND VACATIONS TRUST	189,935.48	190,000	0.08	4	2/25/2032
MML BLEND FUND	FIXED INCOME	CAL FUNDING III LTD	289,967.43	290,000	0.12	4.34	9/25/2043
MML BLEND FUND	FIXED INCOME	LAZARD GROUP LLC	172,124.04	175,000	0.07	4.5	9/19/2028
MML BLEND FUND	FIXED INCOME	PRUDENTIAL FINANCIAL INC	478,358.40	480,000	0.20	5.7	9/15/2048
MML BLEND FUND	FIXED INCOME	NATIONAL RETAIL PROP INC	153,830.48	155,000	0.06	4.3	10/15/2028
MML BLEND FUND	FIXED INCOME	BANK	211,947.27	210,000	0.09	4.59789	9/15/2060
MML BLEND FUND	CASH EQUIVALENT	DENTSPLY INTL INC	1,998,239.22	2,000,000	0.83	0	10/11/2018
MML BLEND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	420,796.95	420,000	0.18	4	10/25/2048
MML BLEND FUND	FIXED INCOME	AIRCATTLE LTD	190,025.36	190,000	0.08	4.4	9/25/2023
MML BLEND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	333,786.05	968,900	0.14	0.01	2/25/2048
MML BLEND FUND	FIXED INCOME	EATON VANCE CDO LTD	700,000.00	700,000	0.29	1	10/15/2030
MML BLEND FUND	CASH EQUIVALENT	WESTAR ENERGY INC	1,999,066.66	2,000,000	0.83	0	10/5/2018
MML BLEND FUND	CASH EQUIVALENT	SPECTRA ENERGY PARTNERS	1,996,601.38	2,000,000	0.83	0	10/23/2018
MML BLEND FUND	FIXED INCOME	ING GROEP NV	410,305.50	410,000	0.17	4.1	10/2/2023
MML BLEND FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	349,944.63	349,945	0.15	1.1	10/1/2018
MML BLEND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	550,000.00	550,000	0.23	1	10/18/2030
MML BLEND FUND	CASH EQUIVALENT	FMC TECH INC	1,997,418.12	2,000,000	0.83	0	10/17/2018
MML BLEND FUND	FIXED INCOME	PANHANDLE PLAINS STUDENT FINAN	297,822.00	300,000	0.12	2.29	12/1/2031
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	542,129.28	550,000	0.23	5.073	12/15/2039
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	298,920.51	300,000	0.12	3.08531	10/25/2040
MML BLEND FUND	FIXED INCOME	GCCFC COMMERCIAL MORTGAGE TRUS	124,331.52	123,042	0.05	5.92809	7/10/2038
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	271,007.63	272,955	0.11	2.46638	3/23/2037
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	97,781.02	106,563	0.04	2.62263	6/25/2041
MML BLEND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	144,959.96	150,000	0.06	2.47531	1/27/2042
MML BLEND FUND	FIXED INCOME	ACCESS GROUP INC	82,193.66	84,043	0.03	3.274	7/1/2038
MML BLEND FUND	FIXED INCOME	FNMA POOL 725692	43,429.80	41,425	0.02	4.019	10/1/2033
MML BLEND FUND	FIXED INCOME	FNMA TBA 30 YR 3.5	885,656.25	900,000	0.37	3.5	10/11/2048
MML BLEND FUND	FIXED INCOME	KNOWLEDGEWORKS FOUNDATION	149,203.20	148,773	0.06	3.26138	2/25/2042
MML BLEND FUND	FIXED INCOME	GSAMP TRUST	16,698.55	16,728	0.01	2.86081	4/25/2035
MML BLEND FUND	FIXED INCOME	ACADEMIC LOAN FUNDING TRUST	456,543.68	453,162	0.19	3.31581	12/27/2044
MML BLEND FUND	FIXED INCOME	GNMA II POOL 082488	87,640.48	84,658	0.04	3.375	3/20/2040
MML BLEND FUND	FIXED INCOME	FNMA POOL AH6787	167,492.66	160,610	0.07	4.5	3/1/2041
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	163,258.29	163,207	0.07	2.84581	1/25/2037
MML BLEND FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	52,714.05	53,585	0.02	2.707	2/19/2045
MML BLEND FUND	FIXED INCOME	COMM MORTGAGE TRUST	137,451.29	140,000	0.06	4.39415	5/10/2048
MML BLEND FUND	FIXED INCOME	MICROSOFT CORP	353,386.18	330,000	0.15	4.45	11/3/2045
MML BLEND FUND	FIXED INCOME	FNMA POOL AL8173	229,299.17	216,344	0.10	5	2/1/2044
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLEND FUND	FIXED INCOME	FED HM LN PC POOL Q57232	401,536.59	397,453	0.17	4	7/1/2048
MML BLEND FUND	FIXED INCOME	KINROSS GOLD CORP	148,370.80	166,000	0.06	4.5	7/15/2027
MML BLEND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	262,628.56	263,965	0.11	3.94	6/20/2035
MML BLEND FUND	FIXED INCOME	BAYER US FINANCE II LLC	302,471.42	340,000	0.13	4.4	7/15/2044
MML BLEND FUND	FIXED INCOME	BHMS MORTGAGE TRUST	851,302.97	850,000	0.35	3.65844	7/15/2035
MML BLEND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	600,023.88	600,000	0.25	2.96581	9/27/2066
MML BLEND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	249,861.50	250,000	0.10	4.22	6/16/2042
MML BLEND FUND	FIXED INCOME	ANTARES HOLDINGS	496,948.32	495,000	0.21	6	8/15/2023
MML BLEND FUND	FIXED INCOME	GENPACT LUXEMBOURG SARL	351,522.67	360,000	0.15	3.7	4/1/2022
MML BLEND FUND	CASH EQUIVALENT	MARRIOTT INTERNATION	999,189.67	1,000,000	0.42	0	10/10/2018
MML BLEND FUND	FIXED INCOME	BARCLAYS COMMERCIAL MORTGAGE S	274,799.98	280,000	0.11	4.40871	8/5/2038
MML BLEND FUND	FIXED INCOME	BARCLAYS COMMERCIAL MORTGAGE S	349,207.67	350,000	0.15	4.40871	8/5/2038
MML BLUE CHIP GROWTH FUND	EQUITY	DOLLAR GENERAL CORP	3,288,399.80	30,086	0.81	0	
MML BLUE CHIP GROWTH FUND	EQUITY	STANLEY BLACK + DECKER INC	596,303.68	4,072	0.15	0	
MML BLUE CHIP GROWTH FUND	EQUITY	NEXTERA ENERGY INC	888,280.00	5,300	0.22	0	
MML BLUE CHIP GROWTH FUND	EQUITY	TESLA INC	2,916,706.32	11,016	0.72	0	
MML BLUE CHIP GROWTH FUND	EQUITY	UNITED CONTINENTAL HOLDINGS	1,318,088.00	14,800	0.32	0	
MML BLUE CHIP GROWTH FUND	EQUITY	FLEETCOR TECHNOLOGIES INC	1,112,087.04	4,881	0.27	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MOTOROLA SOLUTIONS INC	364,392.00	2,800	0.09	0	
MML BLUE CHIP GROWTH FUND	EQUITY	O REILLY AUTOMOTIVE INC	50,014.08	144	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	HCA HEALTHCARE INC	662,211.20	4,760	0.16	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CITIGROUP INC	121,958.00	1,700	0.03	0	
MML BLUE CHIP GROWTH FUND	EQUITY	AMERICAN TOWER CORP	384,463.80	2,646	0.09	0	
MML BLUE CHIP GROWTH FUND	EQUITY	SPLUNK INC	241,820.00	2,000	0.06	0	
MML BLUE CHIP GROWTH FUND	EQUITY	FACEBOOK INC A	15,781,088.22	95,957	3.89	0	
MML BLUE CHIP GROWTH FUND	EQUITY	SERVICENOW INC	6,421,359.12	32,824	1.58	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MORGAN STANLEY	4,955,606.84	106,412	1.22	0	
MML BLUE CHIP GROWTH FUND	EQUITY	HARRIS CORP	1,607,495.00	9,500	0.40	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ABBOTT LABORATORIES	801,678.08	10,928	0.20	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MARSH + MCLENNAN COS	567,541.92	6,861	0.14	0	
MML BLUE CHIP GROWTH FUND	EQUITY	TEXAS INSTRUMENTS INC	2,482,261.44	23,136	0.61	0	
MML BLUE CHIP GROWTH FUND	EQUITY	TEXTRON INC	382,578.91	5,353	0.09	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MCDONALD S CORP	410,195.08	2,452	0.10	0	
MML BLUE CHIP GROWTH FUND	EQUITY	STATE STREET CORP	1,859,748.44	22,198	0.46	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MARRIOTT INTERNATIONAL CL A	3,608,908.02	27,334	0.89	0	
MML BLUE CHIP GROWTH FUND	EQUITY	SHERWIN WILLIAMS CO/THE	1,470,783.51	3,231	0.36	0	
MML BLUE CHIP GROWTH FUND	EQUITY	AIR PRODUCTS + CHEMICALS INC	200,460.00	1,200	0.05	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CIGNA CORP	6,022,798.25	28,921	1.48	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ROSS STORES INC	3,641,627.70	36,747	0.90	0	
MML BLUE CHIP GROWTH FUND	EQUITY	BOEING CO/THE	14,402,571.30	38,727	3.55	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CORNING INC	364,472.50	10,325	0.09	0	
MML BLUE CHIP GROWTH FUND	EQUITY	FEDEX CORP	54,659.33	227	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	FISERV INC	3,184,398.90	38,655	0.78	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MAXIM INTEGRATED PRODUCTS	1,556,364.00	27,600	0.38	0	
MML BLUE CHIP GROWTH FUND	EQUITY	XILINX INC	693,149.82	8,646	0.17	0	
MML BLUE CHIP GROWTH FUND	CASH EQUIVALENT	ROWE T PRICE GOV RES FD	1,040.68	1,041	0.00	0.01	9/19/2034
MML BLUE CHIP GROWTH FUND	EQUITY	RED HAT INC	2,855,611.12	20,954	0.70	0	
MML BLUE CHIP GROWTH FUND	CASH	SOUTH KOREAN WON	0.09	96	0.00	0	
MML BLUE CHIP GROWTH FUND	EQUITY	INTUIT INC	6,158,446.80	27,082	1.52	0	
MML BLUE CHIP GROWTH FUND	EQUITY	STRYKER CORP	7,312,420.40	41,155	1.80	0	
MML BLUE CHIP GROWTH FUND	EQUITY	NORTHERN TRUST CORP	173,621.00	1,700	0.04	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ROYAL CARIBBEAN CRUISES LTD	2,205,341.68	16,972	0.54	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLUE CHIP GROWTH FUND	EQUITY	SEMPRA ENERGY	197,242.50	1,734	0.05		0
MML BLUE CHIP GROWTH FUND	EQUITY	PROGRESSIVE CORP	909,809.28	12,807	0.22		0
MML BLUE CHIP GROWTH FUND	EQUITY	AMAZON.COM INC	46,193,186.00	23,062	11.38		0
MML BLUE CHIP GROWTH FUND	EQUITY	CINTAS CORP	455,754.24	2,304	0.11		0
MML BLUE CHIP GROWTH FUND	EQUITY	ROPER TECHNOLOGIES INC	2,733,722.09	9,229	0.67		0
MML BLUE CHIP GROWTH FUND	EQUITY	ALASKA AIR GROUP INC	708,225.10	10,285	0.17		0
MML BLUE CHIP GROWTH FUND	EQUITY	CSX CORP	1,671,530.65	22,573	0.41		0
MML BLUE CHIP GROWTH FUND	EQUITY	HUMANA INC	2,464,087.08	7,279	0.61		0
MML BLUE CHIP GROWTH FUND	EQUITY	LAM RESEARCH CORP	60,680.00	400	0.01		0
MML BLUE CHIP GROWTH FUND	EQUITY	NORFOLK SOUTHERN CORP	324,900.00	1,800	0.08		0
MML BLUE CHIP GROWTH FUND	EQUITY	NORTHROP GRUMMAN CORP	2,571,649.11	8,103	0.63		0
MML BLUE CHIP GROWTH FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	4,145,942.88	16,986	1.02		0
MML BLUE CHIP GROWTH FUND	EQUITY	UNION PACIFIC CORP	407,075.00	2,500	0.10		0
MML BLUE CHIP GROWTH FUND	EQUITY	ALEXION PHARMACEUTICALS INC	4,117,893.23	29,623	1.01		0
MML BLUE CHIP GROWTH FUND	EQUITY	CELGENE CORP	54,409.92	608	0.01		0
MML BLUE CHIP GROWTH FUND	EQUITY	COSTAR GROUP INC	791,600.04	1,881	0.19		0
MML BLUE CHIP GROWTH FUND	EQUITY	VERTEX PHARMACEUTICALS INC	6,849,979.60	35,540	1.69		0
MML BLUE CHIP GROWTH FUND	EQUITY	BALL CORP	119,696.79	2,721	0.03		0
MML BLUE CHIP GROWTH FUND	EQUITY	NVIDIA CORP	2,324,316.42	8,271	0.57		0
MML BLUE CHIP GROWTH FUND	EQUITY	BECTON DICKINSON AND CO	8,089,956.00	30,996	1.99		0
MML BLUE CHIP GROWTH FUND	EQUITY	HONEYWELL INTERNATIONAL INC	4,334,553.60	26,049	1.07		0
MML BLUE CHIP GROWTH FUND	EQUITY	APPLE INC	3,905,302.00	17,300	0.96		0
MML BLUE CHIP GROWTH FUND	EQUITY	HOME DEPOT INC	1,742,752.95	8,413	0.43		0
MML BLUE CHIP GROWTH FUND	EQUITY	MICROSOFT CORP	21,457,756.29	187,617	5.28		0
MML BLUE CHIP GROWTH FUND	EQUITY	WORKDAY INC CLASS A	2,819,749.68	19,316	0.69		0
MML BLUE CHIP GROWTH FUND	EQUITY	ASML HOLDING NV NY REG SHS	56,406.00	300	0.01		0
MML BLUE CHIP GROWTH FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	433,424.21	7,547	0.11		0
MML BLUE CHIP GROWTH FUND	EQUITY	ZOETIS INC	155,652.00	1,700	0.04		0
MML BLUE CHIP GROWTH FUND	EQUITY	INTERCONTINENTAL EXCHANGE IN	2,999,494.28	40,052	0.74		0
MML BLUE CHIP GROWTH FUND	EQUITY	AMERICAN AIRLINES GROUP INC	2,709,884.11	65,567	0.67		0
MML BLUE CHIP GROWTH FUND	EQUITY	TENCENT HOLDINGS LTD	6,495,851.74	157,200	1.60		0
MML BLUE CHIP GROWTH FUND	EQUITY	ALIBABA GROUP HOLDING SP ADR	11,975,580.60	72,685	2.95		0
MML BLUE CHIP GROWTH FUND	EQUITY	ANTHEM INC	5,148,029.25	18,785	1.27		0
MML BLUE CHIP GROWTH FUND	EQUITY	RESTAURANT BRANDS INTERN	671,049.60	11,320	0.17		0
MML BLUE CHIP GROWTH FUND	EQUITY	EQUINIX INC	47,185.01	109	0.01		0
MML BLUE CHIP GROWTH FUND	EQUITY	PAYPAL HOLDINGS INC	5,634,672.48	64,147	1.39		0
MML BLUE CHIP GROWTH FUND	EQUITY	ALPHABET INC CL C	16,639,358.74	13,942	4.10		0
MML BLUE CHIP GROWTH FUND	EQUITY	ALPHABET INC CL A	6,734,299.32	5,579	1.66		0
MML BLUE CHIP GROWTH FUND	EQUITY	FERRARI NV	464,809.45	3,395	0.11		0
MML BLUE CHIP GROWTH FUND	EQUITY	WILLIS TOWERS WATSON PLC	2,478,993.66	17,589	0.61		0
MML BLUE CHIP GROWTH FUND	EQUITY	CHUBB LTD	788,476.00	5,900	0.19		0
MML BLUE CHIP GROWTH FUND	EQUITY	S+P GLOBAL INC	1,394,107.65	7,135	0.34		0
MML BLUE CHIP GROWTH FUND	EQUITY	FORTIVE CORP W/D	1,569,824.80	18,644	0.39		0
MML BLUE CHIP GROWTH FUND	EQUITY	IHS MARKIT LTD	61,946.08	1,148	0.02		0
MML BLUE CHIP GROWTH FUND	EQUITY	L3 TECHNOLOGIES INC	212,620.00	1,000	0.05		0
MML BLUE CHIP GROWTH FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	1,379,883.96	17,082	0.34		0
MML BLUE CHIP GROWTH FUND	EQUITY	DOWDUPONT INC	147,462.83	2,293	0.04		0
MML BLUE CHIP GROWTH FUND	EQUITY	APTIV PLC	1,761,900.00	21,000	0.43		0
MML BLUE CHIP GROWTH FUND	EQUITY	WORLDPAY INC CLASS A	2,276,954.68	22,484	0.56		0
MML BLUE CHIP GROWTH FUND	EQUITY	BOOKING HOLDINGS INC	13,669,760.00	6,890	3.37		0
MML BLUE CHIP GROWTH FUND	EQUITY	BROADCOM INC	343,941.62	1,394	0.08		0
MML BLUE CHIP GROWTH FUND	EQUITY	ANT INTERNATIONAL CO. LIMITED	775,038.33	138,153	0.19		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML BLUE CHIP GROWTH FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	2,672,290.48	2,672,290	0.66	1.1	10/1/2018
MML BLUE CHIP GROWTH FUND	EQUITY	ELECTRONIC ARTS INC	1,602,276.02	13,298	0.39	0	
MML BLUE CHIP GROWTH FUND	EQUITY	SCHWAB (CHARLES) CORP	2,772,207.45	56,403	0.68	0	
MML BLUE CHIP GROWTH FUND	EQUITY	UNITEDHEALTH GROUP INC	11,684,210.76	43,919	2.88	0	
MML BLUE CHIP GROWTH FUND	EQUITY	DANAHER CORP	3,768,980.76	34,686	0.93	0	
MML BLUE CHIP GROWTH FUND	EQUITY	AGILENT TECHNOLOGIES INC	56,432.00	800	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MICROCHIP TECHNOLOGY INC	486,716.88	6,168	0.12	0	
MML BLUE CHIP GROWTH FUND	EQUITY	RAYMOND JAMES FINANCIAL INC	543,095.00	5,900	0.13	0	
MML BLUE CHIP GROWTH FUND	EQUITY	KANSAS CITY SOUTHERN	208,548.48	1,841	0.05	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ILLUMINA INC	82,955.56	226	0.02	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CONSTELLATION BRANDS INC A	64,686.00	300	0.02	0	
MML BLUE CHIP GROWTH FUND	EQUITY	JPMORGAN CHASE + CO	2,922,556.00	25,900	0.72	0	
MML BLUE CHIP GROWTH FUND	EQUITY	GLOBAL PAYMENTS INC	4,241,146.00	33,290	1.04	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CANADIAN PACIFIC RAILWAY LTD	550,408.18	2,597	0.14	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CENTENE CORP	2,179,807.68	15,056	0.54	0	
MML BLUE CHIP GROWTH FUND	EQUITY	YUM BRANDS INC	1,888,200.70	20,770	0.47	0	
MML BLUE CHIP GROWTH FUND	EQUITY	NETFLIX INC	4,971,439.44	13,288	1.22	0	
MML BLUE CHIP GROWTH FUND	EQUITY	WYNN RESORTS LTD	641,780.06	5,051	0.16	0	
MML BLUE CHIP GROWTH FUND	EQUITY	INTUITIVE SURGICAL INC	6,597,556.00	11,494	1.62	0	
MML BLUE CHIP GROWTH FUND	EQUITY	BIOGEN INC	23,318.46	66	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	CTRP.COM INTERNATIONAL ADR	57,241.80	1,540	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	SALESFORCE.COM INC	8,620,380.18	54,206	2.12	0	
MML BLUE CHIP GROWTH FUND	EQUITY	WELLCARE HEALTH PLANS INC	1,164,981.15	3,635	0.29	0	
MML BLUE CHIP GROWTH FUND	EQUITY	AMERIPRISE FINANCIAL INC	59,064.00	400	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	TD AMERITRADE HOLDING CORP	5,741,300.25	108,675	1.41	0	
MML BLUE CHIP GROWTH FUND	EQUITY	FIDELITY NATIONAL INFO SERV	1,960,315.11	17,973	0.48	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MASTERCARD INC A	12,006,247.74	53,934	2.96	0	
MML BLUE CHIP GROWTH FUND	EQUITY	DELTA AIR LINES INC	1,711,768.00	29,600	0.42	0	
MML BLUE CHIP GROWTH FUND	EQUITY	VMWARE INC CLASS A	698,524.56	4,476	0.17	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ULTA BEAUTY INC	112,848.00	400	0.03	0	
MML BLUE CHIP GROWTH FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	40,770.00	500	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	VISA INC CLASS A SHARES	13,828,692.24	92,136	3.41	0	
MML BLUE CHIP GROWTH FUND	EQUITY	ACTIVISION BLIZZARD INC	2,204,618.19	26,501	0.54	0	
MML BLUE CHIP GROWTH FUND	EQUITY	IAC/INTERACTIVECORP	48,328.56	223	0.01	0	
MML BLUE CHIP GROWTH FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	905,186.48	17,002	0.22	0	
MML BLUE CHIP GROWTH FUND	EQUITY	MERCK + CO. INC.	1,316,362.64	18,556	0.32	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	13,745,328.64	423,585	3.14	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	3,015,822.43	97,003	0.69	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML GLOBAL FD	11,373,123.69	975,397	2.60	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML LARGE CAP GROWTH FD	2,806,603.81	255,611	0.64	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML SHORT DURATION BOND FUND	21,982,838.81	2,261,609	5.03	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML HIGH YIELD FUND	14,055,979.50	1,415,506	3.21	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML TOTAL RETURN BOND FUND	55,121,544.18	5,506,648	12.60	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL VALUE FUND	11,036,083.22	774,462	2.52	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL GROWTH FUND	7,422,573.20	673,555	1.70	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML FOCUSED EQUITY FUND	2,203,510.80	379,262	0.50	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	OPPENHEIMER DISCOVERY MID CAP	2,762,843.33	32,723	0.63	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML SMALL/MID CAP VALUE	2,194,972.26	168,844	0.50	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	30,869,574.82	3,108,719	7.06	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	6,814,203.00	638,034	1.56	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	5,558,659.21	2,335,571	1.27	0	
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	66,290,610.30	6,806,017	15.16	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML SMALL CAP GROWTH EQUITY FD	2,346,419.29	145,312	0.54		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML MID CAP GROWTH FD	7,819,453.72	486,890	1.79		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML MID CAP VALUE FD	9,263,555.94	842,141	2.12		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	10,295,760.90	604,566	2.35		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	11,516,869.88	1,004,962	2.63		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	18,186,899.47	1,837,061	4.16		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	87,172,598.12	7,220,156	19.93		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	7,196,049.38	159,275	1.65		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	12,420,165.51	1,260,931	2.84		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,793,011.58	278,340	1.10		0
MML CONSERVATIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	9,121,450.06	853,269	2.09		0
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE MORTGAGE TRUST	252,890.80	257,000	0.06	3.22941	4/5/2033
MML DYNAMIC BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	171,804.26	170,000	0.04	5.88256	7/15/2034
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIEMAC STRIP	2,941,201.78	3,073,620	0.66		3
MML DYNAMIC BOND FUND	FIXED INCOME	GOVERNMENT NATIONAL MORTGAGE A	3,040,529.91	3,218,130	0.68	3.5	5/20/2045
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIE MAC	6,549,497.93	6,753,335	1.46		3
MML DYNAMIC BOND FUND	FIXED INCOME	GOVERNMENT NATIONAL MORTGAGE A	4,855,799.53	5,120,533	1.08	3.5	6/20/2045
MML DYNAMIC BOND FUND	FIXED INCOME	LCM LTD PARTNERSHIP	1,000,182.00	1,000,000	0.22	5.78919	7/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY CAPITAL I TRUST	137,733.61	1,565,100	0.03	1.78831	8/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	BLACKBIRD CAPITAL AIRCRAFT	922,364.87	895,833	0.21	5.682	12/16/2041
MML DYNAMIC BOND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	1,000,725.00	1,000,000	0.22	7.77688	1/27/2026
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE MORTGAGE TRUST	299,352.24	306,000	0.07	3.44153	4/5/2033
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE MORTGAGE TRUST	285,714.98	285,000	0.06	4.05844	7/15/2032
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIE MAC	4,671,020.13	4,853,744	1.04		3
MML DYNAMIC BOND FUND	FIXED INCOME	CAL FUNDING LTD	466,805.13	470,833	0.10	3.96	2/25/2043
MML DYNAMIC BOND FUND	FIXED INCOME	FANNIE MAE	2,944,420.69	3,861,139	0.66	0.01	4/25/2048
MML DYNAMIC BOND FUND	FIXED INCOME	BLUEMOUNTAIN CLO LTD	988,944.00	1,000,000	0.22	4.9475	4/20/2031
MML DYNAMIC BOND FUND	FIXED INCOME	CANACOL ENERGY LTD	193,502.00	200,000	0.04	7.25	5/3/2025
MML DYNAMIC BOND FUND	FIXED INCOME	DBGS MORTGAGE TRUST	547,952.30	550,000	0.12	3.50844	6/15/2033
MML DYNAMIC BOND FUND	FIXED INCOME	DBGS MORTGAGE TRUST	550,182.82	550,000	0.12	4.60844	6/15/2033
MML DYNAMIC BOND FUND	FIXED INCOME	GLS AUTO RECEIVABLES TRUST	498,362.50	500,000	0.11	3.71	3/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	COLLEGE AVE STUDENT LOANS	494,588.05	494,589	0.11	3.41581	12/26/2047
MML DYNAMIC BOND FUND	FIXED INCOME	NATIXIS COMMERCIAL MORTGAGE SE	367,311.80	368,000	0.08	4.26269	6/15/2035
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	FED HM LN PC POOL G08520	1,209,738.69	1,302,874	0.27	2.5	1/1/2043
MML DYNAMIC BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	270,828.70	5,002,507	0.06	1.66717	2/10/2046
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO DO BRASIL (CAYMAN)	457,500.00	600,000	0.10	6.25	10/29/2049
MML DYNAMIC BOND FUND	FIXED INCOME	SURA ASSET MANAGEMENT	200,100.00	200,000	0.04	4.875	4/17/2024
MML DYNAMIC BOND FUND	FIXED INCOME	WF RBS COMMERCIAL MORTGAGE TRU	540,309.95	12,219,314	0.12	1.22587	8/15/2047
MML DYNAMIC BOND FUND	EQUITY	DOUBLELINE FLOATING RATE FUND	15,890,368.21	1,605,088	3.55	0	
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO BTG PACTUAL LUX	201,002.00	200,000	0.04	8.75	12/29/2049
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	202,458.39	5,068,188	0.05	1.09695	11/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	621,564.45	650,000	0.14	4	12/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	556,344.23	650,000	0.12	4.25853	3/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	COLOMBIA TELECOMUNICACIO	205,000.00	200,000	0.05	8.5	12/29/2049
MML DYNAMIC BOND FUND	FIXED INCOME	RBSSP RESECURITIZATION TRUST	1,002,228.61	1,196,325	0.22	6.499998	10/26/2037
MML DYNAMIC BOND FUND	FIXED INCOME	TOWD POINT MORTGAGE TRUST	2,701,029.51	2,775,164	0.60	2.5	11/25/2060
MML DYNAMIC BOND FUND	FIXED INCOME	WASHINGTON MUTUAL MORTGAGE PAS	1,122,818.32	1,346,553	0.25	6.35	5/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	316,147.91	325,000	0.07	4.31722	5/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	353,189.92	11,557,224	0.08	0.96448	5/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	632,158.80	650,000	0.14	4.26974	7/15/2050
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	675,100.79	700,000	0.15	4.19707	6/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	423,710.39	12,654,039	0.09	0.89734	7/15/2058
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	301,124.96	10,676,221	0.07	0.75906	7/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	387,700.68	390,000	0.09	4.69356	9/15/2058
MML DYNAMIC BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	474,010.13	470,000	0.11	4.80044	10/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	531,003.41	527,000	0.12	4.77097	12/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	CSAIL COMMERCIAL MORTGAGE TRUS	424,131.58	427,000	0.09	4.73637	11/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	425,438.10	421,000	0.09	4.75249	12/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	427,941.91	504,000	0.10	3.237	12/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	343,990.85	351,000	0.08	4.68352	12/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	408,045.07	413,000	0.09	4.64914	11/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY CAPITAL I TRUST	338,187.80	6,443,133	0.08	1.07424	12/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	271,202.69	5,440,146	0.06	1.15097	12/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	CFCRE COMMERCIAL MORTGAGE TRUS	352,577.40	5,743,491	0.08	1.21662	1/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	514,477.09	517,000	0.11	4.80153	2/10/2049
MML DYNAMIC BOND FUND	FIXED INCOME	ALM LOAN FUNDING	501,740.50	500,000	0.11	5.33919	7/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	351,529.00	3,192,094	0.08	1.99879	8/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	FNMA POOL AS7661	1,594,268.17	1,674,596	0.36	3	8/1/2046
MML DYNAMIC BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	201,581.29	210,000	0.05	3.57678	8/10/2029
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	205,871.85	2,371,244	0.05	1.78913	11/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	HERO FUNDING TRUST	347,645.18	345,304	0.08	4.29	9/20/2047
MML DYNAMIC BOND FUND	FIXED INCOME	ALM LOAN FUNDING	1,008,104.00	1,000,000	0.23	6.37919	10/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	451,427.00	454,000	0.10	3.72	12/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	CROWN CASTLE INTL CORP	218,002.64	225,000	0.05	4	3/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	OCTAGON INVESTMENT PARTNERS 30	1,002,477.00	1,000,000	0.22	5.8475	3/17/2030
MML DYNAMIC BOND FUND	FIXED INCOME	OCTAGON INVESTMENT PARTNERS 30	503,291.50	500,000	0.11	8.5475	3/17/2030
MML DYNAMIC BOND FUND	FIXED INCOME	GRIPPEN PARK CLO LTD	1,001,640.00	1,000,000	0.22	5.6475	1/20/2030
MML DYNAMIC BOND FUND	FIXED INCOME	THACHER PARK CLO	1,000,158.00	1,000,000	0.22	5.7475	10/20/2026
MML DYNAMIC BOND FUND	FIXED INCOME	PFP III	94,060.31	94,000	0.02	3.90844	1/14/2035
MML DYNAMIC BOND FUND	FIXED INCOME	PFP III	99,051.44	99,000	0.02	4.65844	1/14/2035
MML DYNAMIC BOND FUND	FIXED INCOME	PFP III	66,228.15	66,193	0.01	3.20844	1/14/2035
MML DYNAMIC BOND FUND	FIXED INCOME	HELIOS ISSUER, LLC	236,499.01	231,862	0.05	4.94	9/20/2049
MML DYNAMIC BOND FUND	FIXED INCOME	CD COMMERCIAL MORTGAGE TRUST	468,709.92	5,786,721	0.10	1.47632	5/10/2050
MML DYNAMIC BOND FUND	FIXED INCOME	OCTAGON INVESTMENT PARTNERS XI	1,014,431.00	1,000,000	0.23	6.33919	7/15/2029
MML DYNAMIC BOND FUND	FIXED INCOME	CLNS TRUST	191,425.63	190,000	0.04	6.631	6/11/2032

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	CLNS TRUST	190,715.54	190,000	0.04	4.181	6/11/2032
MML DYNAMIC BOND FUND	FIXED INCOME	TCI CENT CLO 2017 1 LTD.	502,404.50	500,000	0.11	5.98531	7/25/2030
MML DYNAMIC BOND FUND	FIXED INCOME	CSAIL COMMERCIAL MORTGAGE TRUS	472,730.85	6,677,687	0.11	1.40154	6/15/2050
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE MORTGAGE TRUST	286,777.23	285,000	0.06	5.45844	7/15/2032
MML DYNAMIC BOND FUND	FIXED INCOME	ATHENE GLOBAL FUNDING	581,666.86	600,000	0.13	3	7/1/2022
MML DYNAMIC BOND FUND	FIXED INCOME	BX TRUST	316,526.51	315,144	0.07	5.30844	7/15/2034
MML DYNAMIC BOND FUND	FIXED INCOME	BX TRUST	192,053.49	191,749	0.04	4.20844	7/15/2034
MML DYNAMIC BOND FUND	FIXED INCOME	SPARC EM SPC PANAMA METR	641,305.00	700,000	0.14	0.01	12/5/2022
MML DYNAMIC BOND FUND	FIXED INCOME	SPARC EM SPC PANAMA METR	549,690.00	600,000	0.12	0.01	12/5/2022
MML DYNAMIC BOND FUND	FIXED INCOME	GENERAL MOTORS CO	210,705.13	210,000	0.05	3.143	8/7/2020
MML DYNAMIC BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	506,048.74	6,699,136	0.11	1.28498	8/10/2050
MML DYNAMIC BOND FUND	FIXED INCOME	GEOPARK LTD	201,000.00	200,000	0.04	6.5	9/21/2024
MML DYNAMIC BOND FUND	CASH EQUIVALENT	TREASURY BILL	1,524,662.07	1,540,000	0.34	2.2955	3/7/2019
MML DYNAMIC BOND FUND	FIXED INCOME	NABORS INDUSTRIES INC	191,732.87	200,000	0.04	5.75	2/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	WILLIS NORTH AMERICA INC	564,840.20	565,000	0.13	4.5	9/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	HSBC HOLDINGS PLC	835,083.23	835,000	0.19	3.71425	9/12/2026
MML DYNAMIC BOND FUND	FIXED INCOME	AVOLON HOLDINGS FNDG LTD	328,503.50	325,000	0.07	5.125	10/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	ELDORADO RESORTS INC	81,000.00	80,000	0.02	6	9/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	ENEL FINANCE INTL NV	558,109.99	565,000	0.12	4.25	9/14/2023
MML DYNAMIC BOND FUND	FIXED INCOME	GLP CAPITAL LP / FIN II	215,623.50	215,000	0.05	5.3	1/15/2029
MML DYNAMIC BOND FUND	FIXED INCOME	INTERPUBLIC GROUP COS	541,775.87	545,000	0.12	5.4	10/1/2048
MML DYNAMIC BOND FUND	FIXED INCOME	BOC AVIATION LTD	564,309.01	565,000	0.13	3.49863	9/26/2023
MML DYNAMIC BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	551,023.09	551,000	0.12	3.6	9/15/2021
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO SANTANDER MEXICO	253,750.00	250,000	0.06	5.95	10/1/2028
MML DYNAMIC BOND FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	14,106,689.89	14,106,690	3.15	1.1	10/1/2018
MML DYNAMIC BOND FUND	FIXED INCOME	INDYMAC INDX MORTGAGE LOAN TRU	2,808,294.19	3,098,458	0.63	3.59642	5/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	WACHOVIA BANK COMMERCIAL MORTG	140,062.18	139,033	0.03	5.413	12/15/2043
MML DYNAMIC BOND FUND	FIXED INCOME	GSAA HOME EQUITY TRUST	3,276,142.53	4,490,787	0.73	6.5	11/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	LEHMAN XS TRUST	3,419,568.32	3,781,417	0.76	2.41581	7/25/2047
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE MORTGAGE TRUST	120,734.32	120,908	0.03	6.17006	2/15/2041
MML DYNAMIC BOND FUND	FIXED INCOME	STRUCTURED ADJUSTABLE RATE MOR	1,528,364.10	1,607,760	0.34	4.13836	10/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	2,543,097.55	2,673,556	0.57	2.36581	8/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	NOMURA ASSET ACCEPTANCE CORPOR	2,618,550.40	3,111,851	0.58	4.22881	2/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	INDUSTRIAL SENIOR TRUST	98,000.00	100,000	0.02	5.5	11/1/2022
MML DYNAMIC BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	384,367.45	738,000	0.09	4.72577	10/15/2045
MML DYNAMIC BOND FUND	FIXED INCOME	MEXICO GENERADORA DE ENE	175,282.22	175,942	0.04	5.5	12/6/2032
MML DYNAMIC BOND FUND	FIXED INCOME	UNION BK OF PHILIPPINES	383,042.80	400,000	0.09	3.369	11/29/2022
MML DYNAMIC BOND FUND	FIXED INCOME	CREDITO REAL SAB DE CV	198,252.00	200,000	0.04	9.125	12/31/2099
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	6,380,032.34	6,450,000	1.42	1.75	11/30/2019
MML DYNAMIC BOND FUND	FIXED INCOME	SYNCHRONY FINANCIAL	22,647.44	25,000	0.01	3.95	12/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	ALIBABA GROUP HOLDING	192,561.82	200,000	0.04	2.8	6/6/2023
MML DYNAMIC BOND FUND	FIXED INCOME	EXPEDIA INC	548,415.35	595,000	0.12	3.8	2/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	AMERICAN TOWER CORP	560,636.42	600,000	0.13	3.6	1/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	BANK OF MONTREAL	420,453.00	450,000	0.09	3.803	12/15/2032
MML DYNAMIC BOND FUND	FIXED INCOME	PACKAGING CORP OF AMERIC	272,554.55	290,000	0.06	3.4	12/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIE MAC	2,810,801.53	2,887,651	0.63	3	7/15/2046
MML DYNAMIC BOND FUND	FIXED INCOME	BNP PARIBAS	563,260.90	595,000	0.13	3.375	1/9/2025
MML DYNAMIC BOND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	505,896.20	505,000	0.11	3.32725	1/5/2023
MML DYNAMIC BOND FUND	FIXED INCOME	UNITED MEXICAN STATES	700,087.50	735,000	0.16	3.75	1/11/2028
MML DYNAMIC BOND FUND	FIXED INCOME	REPUBLIC OF ARGENTINA	158,300.00	200,000	0.04	5.875	1/11/2028
MML DYNAMIC BOND FUND	FIXED INCOME	SUMITOMO MITSUI FINL GRP	885,875.20	885,000	0.20	3.076	1/17/2023
MML DYNAMIC BOND FUND	FIXED INCOME	SUNOCO LP/FINANCE CORP	159,390.00	165,000	0.04	5.5	2/15/2026

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	BBVA BANCOMER SA TEXAS	545,250.00	600,000	0.12	5.125	1/18/2033
MML DYNAMIC BOND FUND	FIXED INCOME	MARB BONDCO PLC	186,000.00	200,000	0.04	6.875	1/19/2025
MML DYNAMIC BOND FUND	FIXED INCOME	CROWN AMER/CAP CORP VI	310,375.00	325,000	0.07	4.75	2/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	ANDEAVOR	554,448.90	530,000	0.12	5.125	12/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	EXTRACTION OIL + GAS INC	115,050.00	130,000	0.03	5.625	2/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	OWENS CORNING	244,300.65	295,000	0.05	4.4	1/30/2048
MML DYNAMIC BOND FUND	FIXED INCOME	AASET 2018 1 TRUST	926,413.85	935,242	0.21	3.844	1/16/2038
MML DYNAMIC BOND FUND	FIXED INCOME	UNIFIN FINANCIERA SA DE	374,004.00	400,000	0.08	8.875	12/31/2099
MML DYNAMIC BOND FUND	FIXED INCOME	CAPITAL ONE FINANCIAL CO	139,379.80	140,000	0.03	3.05888	1/30/2023
MML DYNAMIC BOND FUND	FIXED INCOME	PETROBRAS GLOBAL FINANCE	446,425.00	500,000	0.10	5.75	2/1/2029
MML DYNAMIC BOND FUND	FIXED INCOME	INVITATION HOMES TRUST	749,141.48	750,000	0.17	3.60844	3/17/2037
MML DYNAMIC BOND FUND	FIXED INCOME	INDIGO NATURAL RES LLC	183,825.00	190,000	0.04	6.875	2/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	JBS USA LUX/JBS USA FIN	258,375.00	260,000	0.06	6.75	2/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	4,114,565.83	4,220,000	0.92	2.75	2/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	GRAN TIERRA ENERGY INTL	391,720.00	400,000	0.09	6.25	2/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	3,368,925.18	3,680,000	0.75	2.75	11/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	INKIA ENERGY LTD	380,004.00	400,000	0.08	5.875	11/9/2027
MML DYNAMIC BOND FUND	FIXED INCOME	CORNING INC	521,121.18	595,000	0.12	4.375	11/15/2057
MML DYNAMIC BOND FUND	FIXED INCOME	QEP RESOURCES INC	157,781.25	165,000	0.04	5.625	3/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	MOSAIC CO	580,450.11	600,000	0.13	4.05	11/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	565,402.07	600,000	0.13	3.5	1/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	SPRITE LIMITED	470,332.10	470,702	0.10	4.25	12/15/2037
MML DYNAMIC BOND FUND	FIXED INCOME	MATCH GROUP INC	323,407.50	325,000	0.07	5	12/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	MACQUARIE GROUP LTD	316,739.28	330,000	0.07	3.189	11/28/2023
MML DYNAMIC BOND FUND	FIXED INCOME	ROYAL CARIBBEAN CRUISES	273,585.81	295,000	0.06	3.7	3/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	VANTAGE DATA CENTERS ISSUER, L	746,057.02	745,625	0.17	4.072	2/16/2043
MML DYNAMIC BOND FUND	FIXED INCOME	MITSUBISHI UFJ FIN GRP	566,690.21	565,000	0.13	3.06075	3/2/2023
MML DYNAMIC BOND FUND	FIXED INCOME	SOUTHERN CAL EDISON	277,212.23	290,000	0.06	4.125	3/1/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WESTROCK CO	569,985.78	580,000	0.13	3.75	3/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	CVS HEALTH CORP	588,135.16	575,000	0.13	5.05	3/25/2048
MML DYNAMIC BOND FUND	FIXED INCOME	EDISON INTERNATIONAL	569,071.13	575,000	0.13	4.125	3/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	USA COM PART/USA COM FIN	165,200.00	160,000	0.04	6.875	4/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	ITAU UNIBANCO HLDG SA/KY	328,230.00	350,000	0.07	6.5	12/31/2099
MML DYNAMIC BOND FUND	FIXED INCOME	ANGLO AMERICAN CAPITAL	561,439.01	585,000	0.13	4.5	3/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	TRITON CONTAINER FINANCE LLC	470,285.72	475,000	0.10	3.95	3/20/2043
MML DYNAMIC BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	489,561.70	500,000	0.11	3.83	8/25/2047
MML DYNAMIC BOND FUND	FIXED INCOME	SPRINT SPECTRUM / SPEC I	564,745.75	565,000	0.13	4.738	9/20/2029
MML DYNAMIC BOND FUND	FIXED INCOME	MACQUARIE GROUP LTD	278,821.53	280,000	0.06	4.15	3/27/2024
MML DYNAMIC BOND FUND	FIXED INCOME	ANHEUSER BUSCH INBEV WOR	280,918.41	290,000	0.06	4.6	4/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	UBS COMMERCIAL MORTGAGE TRUST	354,950.81	5,141,621	0.08	1.06454	3/15/2051
MML DYNAMIC BOND FUND	FIXED INCOME	DOLLAR TREE INC	544,384.10	555,000	0.12	4	5/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	HILTON DOMESTIC OPERATIN	562,175.00	565,000	0.13	5.125	5/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	DELTA AIR LINES INC	559,868.03	570,000	0.12	3.8	4/19/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT AGRICOLE LONDON	525,029.94	535,000	0.12	3.75	4/24/2023
MML DYNAMIC BOND FUND	FIXED INCOME	AXA EQUITABLE HOLDINGS I	580,725.78	585,000	0.13	3.9	4/20/2023
MML DYNAMIC BOND FUND	FIXED INCOME	COMETA ENERGIA SA	392,900.00	400,000	0.09	6.375	4/24/2035
MML DYNAMIC BOND FUND	FIXED INCOME	CNOOC FINANCE 2015 US	565,257.03	570,000	0.13	3.75	5/2/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CANACOL ENERGY LTD	387,004.00	400,000	0.09	7.25	5/3/2025
MML DYNAMIC BOND FUND	FIXED INCOME	DAIMLER FINANCE NA LLC	1,139,479.65	1,135,000	0.25	3.1805	5/4/2023
MML DYNAMIC BOND FUND	FIXED INCOME	GLP CAPITAL LP / FIN II	334,343.75	325,000	0.07	5.75	6/1/2028
MML DYNAMIC BOND FUND	FIXED INCOME	WESTPAC BANKING CORP	852,522.04	850,000	0.19	3.03375	5/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	BARCLAYS PLC	422,776.19	425,000	0.09	3.69519	5/16/2024

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	CENTENE CORP	35,834.75	35,000	0.01	5.375	6/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	SPRINGLEAF FINANCE CORP	99,500.00	100,000	0.02	7.125	3/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	360,219.60	360,000	0.08	3.48375	5/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	577,902.01	576,660	0.13	4.29	5/17/2038
MML DYNAMIC BOND FUND	FIXED INCOME	EP ENER/EVEREST ACQ FIN	163,800.00	160,000	0.04	7.75	5/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	MICROCHIP TECHNOLOGY INC	561,490.37	565,000	0.13	4.333	6/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CDK GLOBAL INC	164,860.80	160,000	0.04	5.875	6/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	PSEG POWER LLC	428,402.18	430,000	0.10	3.85	6/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CREDIT SUISSE GROUP AG	683,842.00	680,000	0.15	3.57425	6/12/2024
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIE MAC SCRT	2,766,426.86	2,969,887	0.62	3	11/25/2057
MML DYNAMIC BOND FUND	FIXED INCOME	ALEXANDRIA REAL ESTATE E	420,999.12	420,000	0.09	4	1/15/2024
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	BAT CAPITAL CORP	181,423.80	180,000	0.04	3.19375	8/15/2022
MML DYNAMIC BOND FUND	FIXED INCOME	C+W SENIOR FINANCING DAC	798,000.00	800,000	0.18	6.875	9/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	GULFPORT ENERGY CORP	328,300.00	335,000	0.07	6.375	5/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	CIM TRUST	2,382,227.29	2,486,772	0.53	3.015	6/25/2057
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,651,325.00	6,010,000	1.26	1.875	8/31/2024
MML DYNAMIC BOND FUND	FIXED INCOME	BDO UNIBANK INC	282,455.10	300,000	0.06	2.95	3/6/2023
MML DYNAMIC BOND FUND	FIXED INCOME	ISRAEL ELECTRIC CORP LTD	203,000.00	200,000	0.05	5	11/12/2024
MML DYNAMIC BOND FUND	FIXED INCOME	HASBRO INC	566,336.51	610,000	0.13	3.5	9/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	BANISTMO SA	190,750.00	200,000	0.04	3.65	9/19/2022
MML DYNAMIC BOND FUND	FIXED INCOME	MILLICOM INTL CELLULAR	184,000.00	200,000	0.04	5.125	1/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	VIKING CRUISES LTD	322,014.00	330,000	0.07	5.875	9/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	NEXTERA ENERGY OPERATING	325,550.00	340,000	0.07	4.5	9/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,745,930.32	6,030,000	1.28	2.125	9/30/2024
MML DYNAMIC BOND FUND	FIXED INCOME	AVANTOR INC	335,562.50	325,000	0.07	9	10/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	GREAT WOLF TRUST	286,897.07	286,000	0.06	4.40844	9/15/2034
MML DYNAMIC BOND FUND	FIXED INCOME	EQT CORP	571,577.34	610,000	0.13	3.9	10/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	CAESARS RESORT / FINCO	319,087.50	335,000	0.07	5.25	10/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	GILBERT PARK CLO LTD	1,010,008.00	1,000,000	0.23	8.73919	10/15/2030
MML DYNAMIC BOND FUND	FIXED INCOME	UNITED OVERSEAS BANK LTD	469,137.50	500,000	0.10	3.875	12/31/2099
MML DYNAMIC BOND FUND	FIXED INCOME	BEACON ROOFING SUPPLY IN	313,225.00	340,000	0.07	4.875	11/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO SANTANDER SA	601,991.51	600,000	0.13	3.40025	2/23/2023
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	6,573,623.50	6,855,000	1.47	2.25	10/31/2024
MML DYNAMIC BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	371,784.04	370,000	0.08	3.12238	10/31/2022
MML DYNAMIC BOND FUND	FIXED INCOME	CELGENE CORP	532,637.67	595,000	0.12	4.35	11/15/2047
MML DYNAMIC BOND FUND	FIXED INCOME	LLOYDS BANKING GROUP PLC	549,598.54	600,000	0.12	3.574	11/7/2028
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,624,984.38	6,010,000	1.26	2.25	11/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	TERVITA ESCROW CORP	319,687.50	310,000	0.07	7.625	12/1/2021
MML DYNAMIC BOND FUND	FIXED INCOME	DUKE ENERGY FLORIDA LLC	957,060.81	1,000,000	0.21	3.2	1/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	BPRL INTERNATIONAL SINGA	470,029.00	500,000	0.10	4.375	1/18/2027
MML DYNAMIC BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	77,272.34	80,000	0.02	4.2	4/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	ADANI PORTS AND SPECIAL	367,275.00	375,000	0.08	3.95	1/19/2022
MML DYNAMIC BOND FUND	FIXED INCOME	FLEX ACQUISITION CO INC	310,375.00	325,000	0.07	6.875	1/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	GOHL CAPITAL LTD	571,630.20	600,000	0.13	4.25	1/24/2027
MML DYNAMIC BOND FUND	FIXED INCOME	PAMPA ENERGIA SA	530,760.00	600,000	0.12	7.5	1/24/2027
MML DYNAMIC BOND FUND	FIXED INCOME	EMPRESA DE TRANSPORTE ME	755,632.50	750,000	0.17	5	1/25/2047
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	706,121.04	730,000	0.16	1.875	1/31/2022
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	423,323.25	425,000	0.09	1.125	1/31/2019
MML DYNAMIC BOND FUND	FIXED INCOME	SMITHFIELD FOODS INC	559,575.29	595,000	0.12	4.25	2/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	605,276.11	600,997	0.14	4.45	6/20/2042
MML DYNAMIC BOND FUND	FIXED INCOME	AT+T INC	747,487.29	750,000	0.17	5.25	3/1/2037
MML DYNAMIC BOND FUND	FIXED INCOME	WIND RIVER CLO LTD	1,003,805.00	1,000,000	0.22	6.08263	4/18/2029
MML DYNAMIC BOND FUND	FIXED INCOME	DISCOVER FINANCIAL SVS	688,242.02	720,000	0.15	4.1	2/9/2027
MML DYNAMIC BOND FUND	FIXED INCOME	POST HOLDINGS INC	317,600.00	320,000	0.07	5.5	3/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	PEABODY ENERGY CORP	320,512.50	315,000	0.07	6	3/31/2022
MML DYNAMIC BOND FUND	FIXED INCOME	HEXION INC	238,262.50	245,000	0.05	10.375	2/1/2022
MML DYNAMIC BOND FUND	FIXED INCOME	BARCLAYS COMMERCIAL MORTGAGE S	432,811.36	4,561,642	0.10	1.6828	2/15/2050
MML DYNAMIC BOND FUND	FIXED INCOME	TRANSDIGM INC	328,250.00	325,000	0.07	6.375	6/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	EVERSOURCE ENERGY	978,750.04	1,000,000	0.22	2.75	3/15/2022
MML DYNAMIC BOND FUND	FIXED INCOME	BLUELINE RENTAL CRP / LL	315,375.00	300,000	0.07	9.25	3/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	ENABLE MIDSTREAM PARTNER	566,227.14	590,000	0.13	4.4	3/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	MCDONALD S CORP	230,760.92	235,000	0.05	4.45	3/1/2047
MML DYNAMIC BOND FUND	FIXED INCOME	PPF III	164,106.58	164,000	0.04	3.45844	1/14/2035

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	DTE ENERGY CO	488,715.98	500,000	0.11	3.8	3/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	MARB BONDCO PLC	189,002.00	200,000	0.04	7	3/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	PENSKE TRUCK LEASING/PTL	269,907.56	275,000	0.06	4.2	4/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	REPUBLIC OF ARGENTINA	123,000.00	150,000	0.03	6.625	7/6/2028
MML DYNAMIC BOND FUND	FIXED INCOME	REPUBLIC OF ARGENTINA	467,500.00	550,000	0.10	6.875	1/26/2027
MML DYNAMIC BOND FUND	FIXED INCOME	UNITED MEXICAN STATES	632,712.00	643,000	0.14	4.15	3/28/2027
MML DYNAMIC BOND FUND	FIXED INCOME	PERUSAHAAN PENERBIT SBSN	386,000.00	400,000	0.09	4.15	3/29/2027
MML DYNAMIC BOND FUND	FIXED INCOME	PERUSAHAAN PENERBIT SBSN	193,000.00	200,000	0.04	4.15	3/29/2027
MML DYNAMIC BOND FUND	FIXED INCOME	LATAM FINANCE LTD	194,250.00	200,000	0.04	6.875	4/11/2024
MML DYNAMIC BOND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	111,843.04	115,000	0.02	3.95	4/13/2024
MML DYNAMIC BOND FUND	FIXED INCOME	ASP AMC MERGER SUB	133,000.00	175,000	0.03	8	5/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	SABINE PASS LIQUEFACTION	677,945.27	660,000	0.15	5	3/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	NEXTERA ENERGY CAPITAL	269,392.99	280,000	0.06	3.55	5/1/2027
MML DYNAMIC BOND FUND	FIXED INCOME	ENERGUATE TRUST	189,500.00	200,000	0.04	5.875	5/3/2027
MML DYNAMIC BOND FUND	FIXED INCOME	GARDA WORLD SECURITY	296,993.75	305,000	0.07	8.75	5/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	NEXA RESOURCES SA	194,300.00	200,000	0.04	5.375	5/4/2027
MML DYNAMIC BOND FUND	FIXED INCOME	PROVINCIA DE BUENOS AIRE	582,057.00	700,000	0.13	7.875	6/15/2027
MML DYNAMIC BOND FUND	FIXED INCOME	ROYAL BK SCOTLND GRP PLC	276,158.75	285,000	0.06	3.498	5/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP INC	851,719.55	845,000	0.19	3.41175	5/17/2024
MML DYNAMIC BOND FUND	FIXED INCOME	CLNS TRUST	191,069.38	190,000	0.04	5.631	6/11/2032
MML DYNAMIC BOND FUND	FIXED INCOME	SUNCOKE ENRGY PART LP/FI	324,450.00	315,000	0.07	7.5	6/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	BECTON DICKINSON AND CO	836,129.97	860,000	0.19	2.894	6/6/2022
MML DYNAMIC BOND FUND	FIXED INCOME	PETSMART INC	94,264.35	115,000	0.02	5.875	6/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	ARROW ELECTRONICS INC	270,126.58	290,000	0.06	3.875	1/12/2028
MML DYNAMIC BOND FUND	FIXED INCOME	FORTIS INC	554,080.86	580,000	0.12	2.1	10/4/2021
MML DYNAMIC BOND FUND	FIXED INCOME	ASTRAZENECA PLC	576,692.78	600,000	0.13	2.375	6/12/2022
MML DYNAMIC BOND FUND	FIXED INCOME	RAIT TRUST	370,666.11	370,546	0.08	3.10844	6/15/2037
MML DYNAMIC BOND FUND	FIXED INCOME	RAIT TRUST	141,031.46	141,000	0.03	3.45844	6/15/2037
MML DYNAMIC BOND FUND	FIXED INCOME	EXELON CORP	717,661.78	750,000	0.16	3.4	4/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	ALLY FINANCIAL INC	30,150.00	30,000	0.01	4.25	4/15/2021
MML DYNAMIC BOND FUND	FIXED INCOME	PRIME SECSRV BRW/FINANC	238,498.50	223,000	0.05	9.25	5/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	SYDNEY AIRPORT FINANCE	286,674.04	300,000	0.06	3.625	4/28/2026
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	485,988.98	475,000	0.11	4.90949	5/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	MALAYAN BANKING BHD	591,654.00	600,000	0.13	3.905	10/29/2026
MML DYNAMIC BOND FUND	FIXED INCOME	CROWN CASTLE INTL CORP	668,986.68	700,000	0.15	3.7	6/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	LEVEL 3 FINANCING INC	329,749.20	330,000	0.07	5.375	1/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	AES ANDRS/DMCN PWR/ITABO	516,255.00	500,000	0.12	7.95	5/11/2026
MML DYNAMIC BOND FUND	FIXED INCOME	ALM LOAN FUNDING	501,997.50	500,000	0.11	6.68919	7/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	SOUTHERN CO	64,509.66	65,000	0.01	1.85	7/1/2019
MML DYNAMIC BOND FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	160,400.00	160,000	0.04	5.75	2/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	MARFRIG HOLDING EUROPE B	200,700.00	200,000	0.04	8	6/8/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CENGAGE LEARNING INC	228,231.25	265,000	0.05	9.5	6/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	WESTCOTT PARK CLO LTD	503,755.00	500,000	0.11	6.6975	7/20/2028
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,791,728.74	6,070,000	1.29	1.125	6/30/2021
MML DYNAMIC BOND FUND	FIXED INCOME	FHLMC MULTIFAMILY STRUCTURED P	308,607.24	6,646,635	0.07	1.44049	3/25/2023
MML DYNAMIC BOND FUND	FIXED INCOME	FNMA POOL MA2711	5,511,070.88	5,788,750	1.23	3	8/1/2046
MML DYNAMIC BOND FUND	FIXED INCOME	SG COMMERCIAL MORTGAGE SECURIT	413,690.40	3,920,025	0.09	2.16644	10/10/2048
MML DYNAMIC BOND FUND	FIXED INCOME	SUNOCO LOGISTICS PARTNER	711,504.77	750,000	0.16	3.9	7/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	166,443.39	174,000	0.04	3.4595	8/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	128,344.76	134,000	0.03	3.94373	8/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	MPT OPER PARTNERSP/FINL	337,875.00	340,000	0.08	5.25	8/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	515,374.76	547,000	0.12	2.902	7/10/2049

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	413,614.18	3,725,985	0.09	2.15597	7/10/2049
MML DYNAMIC BOND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	694,544.24	780,000	0.16	2.8	7/21/2023
MML DYNAMIC BOND FUND	FIXED INCOME	ONGC VIDESH VANKORNEFT	783,414.40	850,000	0.17	3.75	7/27/2026
MML DYNAMIC BOND FUND	FIXED INCOME	DUKE ENERGY CORP	188,932.38	215,000	0.04	3.75	9/1/2046
MML DYNAMIC BOND FUND	FIXED INCOME	BUILDERS FIRSTSOURCE INC	307,600.00	320,000	0.07	5.625	9/1/2024
MML DYNAMIC BOND FUND	FIXED INCOME	DBS GROUP HOLDINGS LTD	579,000.00	600,000	0.13	3.6	12/29/2049
MML DYNAMIC BOND FUND	FIXED INCOME	MINERVA LUXEMBOURG SA	374,500.00	400,000	0.08	6.5	9/20/2026
MML DYNAMIC BOND FUND	FIXED INCOME	SHIRE ACQ INV IRELAND DA	552,355.21	580,000	0.12	2.875	9/23/2023
MML DYNAMIC BOND FUND	FIXED INCOME	MEXICO CITY ARPT TRUST	470,000.00	500,000	0.10	4.25	10/31/2026
MML DYNAMIC BOND FUND	FIXED INCOME	SINOPEC GRP OVERSEAS DEV	446,330.50	500,000	0.10	2.75	9/29/2026
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO MERCANTIL DE NORTE	187,862.00	200,000	0.04	5.95	10/4/2031
MML DYNAMIC BOND FUND	EQUITY	SANDRIDGE ENERGY INC	7,043.76	648	0.00	0	
MML DYNAMIC BOND FUND	FIXED INCOME	UPL CORP LTD	193,195.80	200,000	0.04	3.25	10/13/2021
MML DYNAMIC BOND FUND	FIXED INCOME	SIERRA PACIFIC POWER CO	922,325.57	1,000,000	0.21	2.6	5/1/2026
MML DYNAMIC BOND FUND	FIXED INCOME	TEMPUR SEALY INTL INC	321,181.25	335,000	0.07	5.5	6/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	CSX CORP	542,539.35	600,000	0.12	3.8	11/1/2046
MML DYNAMIC BOND FUND	FIXED INCOME	FNMA POOL AL9238	3,950,395.50	4,112,987	0.88	3	10/1/2041
MML DYNAMIC BOND FUND	FIXED INCOME	BDO UNIBANK INC	287,351.10	300,000	0.06	2.625	10/24/2021
MML DYNAMIC BOND FUND	FIXED INCOME	CENTENE CORP	329,175.00	330,000	0.07	4.75	1/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO MACRO SA	292,253.50	350,000	0.07	6.75	11/4/2026
MML DYNAMIC BOND FUND	FIXED INCOME	SERVICEMASTER COMPANY LL	64,025.00	65,000	0.01	5.125	11/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	TELESAT CANADA/TELESAT L	304,950.00	285,000	0.07	8.875	11/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	GENESYS/GREENEDEN LUX/US	321,175.00	290,000	0.07	10	11/30/2024
MML DYNAMIC BOND FUND	FIXED INCOME	MSCG TRUST	454,981.16	458,150	0.10	5.205	11/15/2034
MML DYNAMIC BOND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	583,870.84	575,000	0.13	4.908	7/23/2025
MML DYNAMIC BOND FUND	FIXED INCOME	TCI CENT CLO 2016 1 LTD.	1,003,086.00	1,000,000	0.22	6.33688	12/21/2029
MML DYNAMIC BOND FUND	FIXED INCOME	BLUEMOUNTAIN CLO LTD	1,007,098.00	1,000,000	0.22	6.4975	1/20/2029
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	432,768.45	435,000	0.10	3.72	12/10/2049
MML DYNAMIC BOND FUND	FIXED INCOME	GEORGIA PACIFIC LLC	559,465.33	565,000	0.12	3.6	3/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	SPRINT CORP	171,187.50	165,000	0.04	7.125	6/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	DUKE ENERGY PROGRESS INC	458,906.90	470,000	0.10	4.15	12/1/2044
MML DYNAMIC BOND FUND	FIXED INCOME	EMPRESA ELECTRICA ANGAMO	189,291.62	191,300	0.04	4.875	5/25/2029
MML DYNAMIC BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	1,251,153.09	1,450,000	0.28	4.65915	11/10/2047
MML DYNAMIC BOND FUND	FIXED INCOME	REPUBLIC OF CHILE	193,996.00	200,000	0.04	3.125	3/27/2025
MML DYNAMIC BOND FUND	FIXED INCOME	AIR LEASE CORP	586,081.93	585,000	0.13	3.75	2/1/2022
MML DYNAMIC BOND FUND	FIXED INCOME	ONEMAIN FINANCIAL ISSUANCE TRU	1,084,722.45	1,083,458	0.24	3.19	3/18/2026
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	640,634.30	704,000	0.14	3.98308	2/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	PETSMART INC	143,750.00	200,000	0.03	7.125	3/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	SPRINGLEAF FUNDING TRUST	1,266,455.63	1,267,397	0.28	3.16	11/15/2024
MML DYNAMIC BOND FUND	FIXED INCOME	RIVERBED TECHNOLOGY INC	80,112.50	85,000	0.02	8.875	3/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	COMMSCOPE TECH LLC	329,600.00	320,000	0.07	6	6/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	INFORMATICA LLC	322,427.70	315,000	0.07	7.125	7/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	BHARTI AIRTEL LTD	462,650.23	500,000	0.10	4.375	6/10/2025
MML DYNAMIC BOND FUND	FIXED INCOME	REYNOLDS AMERICAN INC	387,377.16	385,000	0.09	4	6/12/2022
MML DYNAMIC BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	474,858.52	470,000	0.11	4.75	1/15/2026
MML DYNAMIC BOND FUND	FIXED INCOME	CSC HOLDINGS LLC	166,175.00	170,000	0.04	5.25	6/1/2024
MML DYNAMIC BOND FUND	FIXED INCOME	FREDDIE MAC	6,042,371.50	6,235,303	1.35	3	6/15/2044
MML DYNAMIC BOND FUND	FIXED INCOME	ALLIANT HOLD / CO ISSUER	326,025.00	315,000	0.07	8.25	8/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	FED HM LN PC POOL G08658	3,579,313.96	3,729,211	0.80	3	8/1/2045
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	3,887,814.32	4,130,000	0.87	2.875	8/15/2045
MML DYNAMIC BOND FUND	FIXED INCOME	KRONOS ACQUISITION HOLDI	311,025.00	330,000	0.07	9	8/15/2023
MML DYNAMIC BOND FUND	FIXED INCOME	SOPHIA LP/FIN INC	323,175.00	310,000	0.07	9	9/30/2023

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	FIDELITY NATIONAL INFORM	417,309.85	415,000	0.09	3.625	10/15/2020
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	99,761.43	100,000	0.02	4.81721	11/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	FEDEX CORP	545,723.02	545,000	0.12	4.75	11/15/2045
MML DYNAMIC BOND FUND	FIXED INCOME	FANNIE MAE	885,535.53	904,504	0.20	3	1/25/2045
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	314,983.60	368,000	0.07	3.06	10/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	464,444.65	468,000	0.10	4.7635	11/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	385,189.34	6,629,080	0.09	1.23297	11/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	FHLMC MULTIFAMILY STRUCTURED P	349,040.06	350,000	0.08	3.334	8/25/2025
MML DYNAMIC BOND FUND	FIXED INCOME	AXIATA SPV2 BHD	497,458.50	500,000	0.11	3.466	11/19/2020
MML DYNAMIC BOND FUND	FIXED INCOME	LOCKHEED MARTIN CORP	538,354.05	505,000	0.12	4.7	5/15/2046
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	REPUBLIC OF PANAMA	202,702.00	200,000	0.05	4	9/22/2024
MML DYNAMIC BOND FUND	FIXED INCOME	CLI FUNDING LLC	402,429.66	410,734	0.09	3.38	10/18/2029
MML DYNAMIC BOND FUND	FIXED INCOME	FNMA POOL AX2501	2,249,821.69	2,219,050	0.50	4	10/1/2044
MML DYNAMIC BOND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	550,978.56	565,000	0.12	4.4	11/1/2034
MML DYNAMIC BOND FUND	FIXED INCOME	GLOBAL BANK CORPORATION	704,200.00	700,000	0.16	5.125	10/30/2019
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	6,674,998.41	6,760,000	1.49	1.5	10/31/2019
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,439,317.56	5,070,000	1.21	3.625	8/15/2043
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,359,791.73	5,430,000	1.20	2.125	8/31/2020
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,796,036.24	5,890,000	1.29	2	9/30/2020
MML DYNAMIC BOND FUND	FIXED INCOME	EMBOTELLADORA ANDINA SA	627,173.15	600,000	0.14	5	10/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	5,203,749.49	5,320,000	1.16	1.75	10/31/2020
MML DYNAMIC BOND FUND	FIXED INCOME	GUANAY FINANCE LTD	367,807.26	366,890	0.08	6	12/15/2020
MML DYNAMIC BOND FUND	FIXED INCOME	ZIMMER BIOMET HOLDINGS	564,459.84	570,000	0.13	2.7	4/1/2020
MML DYNAMIC BOND FUND	FIXED INCOME	PETRONAS CAPITAL LTD	781,521.60	800,000	0.17	3.5	3/18/2025
MML DYNAMIC BOND FUND	FIXED INCOME	CSAIL COMMERCIAL MORTGAGE TRUS	385,555.72	9,106,848	0.09	1.06541	4/15/2050
MML DYNAMIC BOND FUND	FIXED INCOME	ALLY FINANCIAL INC	557,081.25	555,000	0.12	4.125	3/30/2020
MML DYNAMIC BOND FUND	FIXED INCOME	JPMBB COMMERCIAL MORTGAGE SECU	381,559.14	8,670,754	0.09	1.28892	10/15/2048
MML DYNAMIC BOND FUND	FIXED INCOME	MALAYSIA SOVEREIGN SUKUK	478,250.00	500,000	0.11	3.043	4/22/2025
MML DYNAMIC BOND FUND	FIXED INCOME	BBVA COLOMBIA SA	299,550.00	300,000	0.07	4.875	4/21/2025
MML DYNAMIC BOND FUND	FIXED INCOME	SYDNEY AIRPORT FINANCE	285,567.17	300,000	0.06	3.375	4/30/2025
MML DYNAMIC BOND FUND	FIXED INCOME	EMPRESA ELEC GUACOLDA	185,814.44	200,000	0.04	4.56	4/30/2025
MML DYNAMIC BOND FUND	FIXED INCOME	YPF SOCIEDAD ANONIMA	292,503.00	300,000	0.07	8.5	7/28/2025
MML DYNAMIC BOND FUND	FIXED INCOME	ORACLE CORP	276,278.45	285,000	0.06	4.125	5/15/2045
MML DYNAMIC BOND FUND	FIXED INCOME	ESH HOSPITALITY INC	319,275.00	330,000	0.07	5.25	5/1/2025
MML DYNAMIC BOND FUND	FIXED INCOME	ABBVIE INC	557,254.17	580,000	0.12	4.7	5/14/2045
MML DYNAMIC BOND FUND	FIXED INCOME	ONEMAIN FINANCIAL ISSUANCE TRU	2,087.92	2,088	0.00	2.57	7/18/2025
MML DYNAMIC BOND FUND	FIXED INCOME	XCEL ENERGY INC	966,537.48	1,000,000	0.22	3.3	6/1/2025
MML DYNAMIC BOND FUND	CASH	US DOLLAR	29.07	29	0.00	0	
MML DYNAMIC BOND FUND	FIXED INCOME	SPRINT CAPITAL CORP	80,400.00	80,000	0.02	6.875	11/15/2028
MML DYNAMIC BOND FUND	FIXED INCOME	FORD MOTOR COMPANY	538,706.26	485,000	0.12	7.45	7/16/2031
MML DYNAMIC BOND FUND	FIXED INCOME	MORGAN STANLEY MORTGAGE LOAN T	635,287.33	705,107	0.14	3.58408	7/25/2035
MML DYNAMIC BOND FUND	FIXED INCOME	COUNTRYWIDE ALTERNATIVE LOAN T	2,131,262.84	2,369,925	0.48	6	8/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	HARBORVIEW MORTGAGE LOAN TRUST	1,337,438.67	1,500,224	0.30	2.33813	12/19/2036
MML DYNAMIC BOND FUND	FIXED INCOME	CITIMORTGAGE ALTERNATIVE LOAN	2,980,580.02	3,074,090	0.67	5.5	4/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	COUNTRYWIDE ALTERNATIVE LOAN T	3,044,210.86	4,311,738	0.68	6.25	12/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	FED HM LN PC POOL G08632	2,813,718.89	2,847,308	0.63	3.5	3/1/2045
MML DYNAMIC BOND FUND	FIXED INCOME	PILGRIM S PRIDE CORP	317,625.00	330,000	0.07	5.75	3/15/2025
MML DYNAMIC BOND FUND	FIXED INCOME	BHARAT PETROLEUM CORP LT	200,834.00	200,000	0.04	4.625	10/25/2022
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	4,380,910.54	4,735,000	0.98	2.75	11/15/2042
MML DYNAMIC BOND FUND	FIXED INCOME	AMERICAN ELECTRIC POWER	305,974.19	313,000	0.07	2.95	12/15/2022
MML DYNAMIC BOND FUND	FIXED INCOME	UNIVERSAL HOSPITAL SERVI	330,412.50	330,000	0.07	7.625	8/15/2020
MML DYNAMIC BOND FUND	FIXED INCOME	FONDO MIVIVIENDA SA	145,500.00	150,000	0.03	3.5	1/31/2023
MML DYNAMIC BOND FUND	FIXED INCOME	FONDO MIVIVIENDA SA	194,000.00	200,000	0.04	3.5	1/31/2023
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO RESERVAS REP DOMIN	203,002.00	200,000	0.05	7	2/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	ESAL GMBH	396,500.00	400,000	0.09	6.25	2/5/2023
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO DE CRED E INVER	200,500.00	200,000	0.04	4	2/11/2023
MML DYNAMIC BOND FUND	FIXED INCOME	US TREASURY N/B	3,397,913.66	3,440,000	0.76	3.125	2/15/2043
MML DYNAMIC BOND FUND	FIXED INCOME	TAL ADVANTAGE LLC	216,294.94	220,833	0.05	2.83	2/22/2038
MML DYNAMIC BOND FUND	FIXED INCOME	BHARTI AIRTEL INTERNATIO	394,812.80	400,000	0.09	5.125	3/11/2023
MML DYNAMIC BOND FUND	FIXED INCOME	INDIAN OIL CORP LTD	628,345.80	600,000	0.14	5.75	8/1/2023
MML DYNAMIC BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	68,493.60	68,960	0.02	5.464	1/15/2049
MML DYNAMIC BOND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	1,657,601.79	1,835,930	0.37	3.651407	2/25/2047

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML DYNAMIC BOND FUND	FIXED INCOME	INTEROCEANICA IV FINANCE	846,829.77	999,209	0.19	0.01	11/30/2025
MML DYNAMIC BOND FUND	FIXED INCOME	KINDER MORGAN ENER PART	690,941.93	570,000	0.15	6.95	1/15/2038
MML DYNAMIC BOND FUND	FIXED INCOME	CITIGROUP MORTGAGE LOAN TRUST	2,198,621.19	2,271,444	0.49	3.80866	4/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	1,669,747.45	1,922,981	0.37	6	9/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	RESIDENTIAL FUNDING MTG SEC I	484,750.65	518,246	0.11	6	4/25/2037
MML DYNAMIC BOND FUND	FIXED INCOME	COUNTRYWIDE ALTERNATIVE LOAN T	2,038,408.09	2,571,428	0.46	6	5/25/2036
MML DYNAMIC BOND FUND	FIXED INCOME	CALIFORNIA ST	277,320.20	190,000	0.06	7.55	4/1/2039
MML DYNAMIC BOND FUND	FIXED INCOME	ECOPETROL SA	207,260.00	200,000	0.05	7.625	7/23/2019
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO INTL DEL PERU/PANA	520,500.00	500,000	0.12	5.75	10/7/2020
MML DYNAMIC BOND FUND	FIXED INCOME	COSAN OVERSEAS LTD	496,250.00	500,000	0.11	8.25	11/29/2049
MML DYNAMIC BOND FUND	FIXED INCOME	BOSTON PROPERTIES LP	528,812.96	520,000	0.12	4.125	5/15/2021
MML DYNAMIC BOND FUND	FIXED INCOME	ENGIE ENERGIA CHILE SA	103,666.24	100,000	0.02	5.625	1/15/2021
MML DYNAMIC BOND FUND	FIXED INCOME	VOTORANTIM CIMENTOS SA	198,002.00	200,000	0.04	7.25	4/5/2041
MML DYNAMIC BOND FUND	FIXED INCOME	KROGER CO	560,246.06	565,000	0.13	3.4	4/15/2022
MML DYNAMIC BOND FUND	FIXED INCOME	LIBERTY MUTUAL GROUP INC	834,138.15	690,000	0.19	6.5	5/1/2042
MML DYNAMIC BOND FUND	FIXED INCOME	HEXION INC	75,200.00	80,000	0.02	6.625	4/15/2020
MML DYNAMIC BOND FUND	FIXED INCOME	TEMASEK FINANCIAL I LTD	479,519.72	500,000	0.11	2.375	1/23/2023
MML DYNAMIC BOND FUND	FIXED INCOME	CELULOSA ARAUCO CONSTITU	204,500.00	200,000	0.05	4.75	1/11/2022
MML DYNAMIC BOND FUND	FIXED INCOME	BANCO SANTANDER CHILE	149,705.58	150,000	0.03	3.875	9/20/2022
MML DYNAMIC BOND FUND	FIXED INCOME	ENA NORTE TRUST	137,407.99	136,895	0.03	4.95	4/25/2028
MML EQUITY FUND	EQUITY	HARTFORD FINANCIAL SVCS GRP	6,589,224.40	131,890	1.31	0	
MML EQUITY FUND	EQUITY	UNITEDHEALTH GROUP INC	19,027,180.80	71,520	3.79	0	
MML EQUITY FUND	EQUITY	PARKER HANNIFIN CORP	7,731,129.69	42,033	1.54	0	
MML EQUITY FUND	EQUITY	DANAHER CORP	6,767,127.48	62,278	1.35	0	
MML EQUITY FUND	EQUITY	BLACKROCK INC	6,867,278.10	14,570	1.37	0	
MML EQUITY FUND	EQUITY	MARVELL TECHNOLOGY GROUP LTD	2,088,646.00	108,220	0.42	0	
MML EQUITY FUND	EQUITY	KANSAS CITY SOUTHERN	4,954,867.20	43,740	0.99	0	
MML EQUITY FUND	EQUITY	NASDAQ INC	4,141,566.00	48,270	0.82	0	
MML EQUITY FUND	EQUITY	FLUOR CORP	3,004,932.00	51,720	0.60	0	
MML EQUITY FUND	EQUITY	JPMORGAN CHASE + CO	19,501,008.80	172,820	3.88	0	
MML EQUITY FUND	EQUITY	ZIMMER BIOMET HOLDINGS INC	4,001,946.80	30,440	0.80	0	
MML EQUITY FUND	EQUITY	CHEVRON CORP	16,375,982.16	133,922	3.26	0	
MML EQUITY FUND	EQUITY	CONOCOPHILLIPS	10,105,421.40	130,561	2.01	0	
MML EQUITY FUND	EQUITY	DIGITAL REALTY TRUST INC	3,210,179.20	28,540	0.64	0	
MML EQUITY FUND	EQUITY	LAS VEGAS SANDS CORP	1,350,350.80	22,760	0.27	0	
MML EQUITY FUND	EQUITY	AMERIPRISE FINANCIAL INC	3,850,972.80	26,080	0.77	0	
MML EQUITY FUND	EQUITY	AT+T INC	12,042,123.80	358,610	2.40	0	
MML EQUITY FUND	EQUITY	CBS CORP CLASS B NON VOTING	3,420,573.00	59,540	0.68	0	
MML EQUITY FUND	EQUITY	FIDELITY NATIONAL INFO SERV	2,263,202.50	20,750	0.45	0	
MML EQUITY FUND	EQUITY	PFIZER INC	11,614,648.50	263,550	2.31	0	
MML EQUITY FUND	EQUITY	WALMART INC	8,379,589.30	89,230	1.67	0	
MML EQUITY FUND	EQUITY	BANK OF AMERICA CORP	23,198,571.60	787,460	4.62	0	
MML EQUITY FUND	CASH	US DOLLAR	6.91	7	0.00	0	
MML EQUITY FUND	EQUITY	ABBOTT LABORATORIES	7,410,093.60	101,010	1.47	0	
MML EQUITY FUND	EQUITY	BRISTOL MYERS SQUIBB CO	2,720,345.60	43,820	0.54	0	
MML EQUITY FUND	EQUITY	LOWE S COS INC	3,273,518.20	28,510	0.65	0	
MML EQUITY FUND	EQUITY	TEXAS INSTRUMENTS INC	2,328,193.00	21,700	0.46	0	
MML EQUITY FUND	EQUITY	MCDONALD S CORP	4,193,960.30	25,070	0.83	0	
MML EQUITY FUND	EQUITY	SYNOPSIS INC	5,382,133.80	54,580	1.07	0	
MML EQUITY FUND	EQUITY	TARGET CORP	10,601,077.80	120,180	2.11	0	
MML EQUITY FUND	EQUITY	WASTE MANAGEMENT INC	4,976,125.20	55,070	0.99	0	
MML EQUITY FUND	EQUITY	COCA COLA CO/THE	10,005,677.80	216,620	1.99	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	DEERE + CO	2,764,568.70	18,390	0.55	0	
MML EQUITY FUND	EQUITY	ZIONS BANCORP NA	8,917,673.00	177,820	1.77	0	
MML EQUITY FUND	EQUITY	EQUITY RESIDENTIAL	3,356,731.60	50,660	0.67	0	
MML EQUITY FUND	EQUITY	PUBLIC STORAGE	1,734,018.00	8,600	0.35	0	
MML EQUITY FUND	EQUITY	CATERPILLAR INC	5,122,139.10	33,590	1.02	0	
MML EQUITY FUND	EQUITY	GENERAL MILLS INC	2,150,721.20	50,110	0.43	0	
MML EQUITY FUND	EQUITY	GOLDMAN SACHS GROUP INC	8,310,334.40	37,060	1.65	0	
MML EQUITY FUND	EQUITY	ENBRIDGE INC	3,811,414.73	118,037	0.76	0	
MML EQUITY FUND	EQUITY	CONCHO RESOURCES INC	4,017,325.00	26,300	0.80	0	
MML EQUITY FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	6,815,113.20	83,580	1.36	0	
MML EQUITY FUND	EQUITY	SUNCOR ENERGY INC	15,647,009.80	404,420	3.11	0	
MML EQUITY FUND	EQUITY	MERCK + CO. INC.	10,365,043.40	146,110	2.06	0	
MML EQUITY FUND	EQUITY	CIT GROUP INC	3,966,228.50	76,850	0.79	0	
MML EQUITY FUND	EQUITY	NEXTERA ENERGY INC	4,986,938.00	29,755	0.99	0	
MML EQUITY FUND	EQUITY	GENERAL MOTORS CO	6,614,134.80	196,440	1.32	0	
MML EQUITY FUND	EQUITY	TE CONNECTIVITY LTD	3,469,717.80	39,460	0.69	0	
MML EQUITY FUND	EQUITY	CITIGROUP INC	12,783,350.60	178,190	2.54	0	
MML EQUITY FUND	EQUITY	PROLOGIS INC	7,026,433.50	103,650	1.40	0	
MML EQUITY FUND	EQUITY	XPO LOGISTICS INC	4,398,970.10	38,530	0.88	0	
MML EQUITY FUND	EQUITY	AON PLC	4,058,254.20	26,390	0.81	0	
MML EQUITY FUND	EQUITY	PHILLIPS 66	4,605,626.48	40,859	0.92	0	
MML EQUITY FUND	EQUITY	WEATHERFORD INTERNATIONAL PL	7,280,387.90	2,686,490	1.45	0	
MML EQUITY FUND	EQUITY	ANTHEM INC	3,842,181.00	14,020	0.76	0	
MML EQUITY FUND	EQUITY	CROWN CASTLE INTL CORP	4,959,751.50	44,550	0.99	0	
MML EQUITY FUND	EQUITY	MYLAN NV	3,830,922.00	104,670	0.76	0	
MML EQUITY FUND	EQUITY	WESTROCK CO	3,963,644.80	74,170	0.79	0	
MML EQUITY FUND	EQUITY	HP INC	3,354,738.60	130,180	0.67	0	
MML EQUITY FUND	EQUITY	COCA COLA EUROPEAN PARTNERS	5,860,628.30	128,890	1.17	0	
MML EQUITY FUND	EQUITY	ALCOA CORP	4,776,492.00	118,230	0.95	0	
MML EQUITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	13,828,555.12	13,828,555	2.75	1.1	10/1/2018
MML EQUITY FUND	EQUITY	FREEMPORT MCMORAN INC	2,415,676.80	173,540	0.48	0	
MML EQUITY FUND	EQUITY	BORGWARNER INC	3,496,409.40	81,730	0.70	0	
MML EQUITY FUND	EQUITY	EDISON INTERNATIONAL	5,000,198.40	73,880	1.00	0	
MML EQUITY FUND	EQUITY	EASTMAN CHEMICAL CO	6,071,519.60	63,430	1.21	0	
MML EQUITY FUND	EQUITY	ENTERGY CORP	4,955,420.40	61,080	0.99	0	
MML EQUITY FUND	EQUITY	KEYCORP	6,609,049.20	332,280	1.32	0	
MML EQUITY FUND	EQUITY	LENNAR CORP A	1,522,094.00	32,600	0.30	0	
MML EQUITY FUND	EQUITY	LOCKHEED MARTIN CORP	4,695,023.16	13,571	0.93	0	
MML EQUITY FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	5,391,727.20	22,090	1.07	0	
MML EQUITY FUND	EQUITY	UNION PACIFIC CORP	1,996,295.80	12,260	0.40	0	
MML EQUITY FUND	EQUITY	ZEBRA TECHNOLOGIES CORP CL A	2,424,339.30	13,710	0.48	0	
MML EQUITY FUND	EQUITY	GILEAD SCIENCES INC	4,959,970.40	64,240	0.99	0	
MML EQUITY FUND	EQUITY	PROCTER + GAMBLE CO/THE	2,968,814.10	35,670	0.59	0	
MML EQUITY FUND	EQUITY	AMGEN INC	2,159,961.80	10,420	0.43	0	
MML EQUITY FUND	EQUITY	BOSTON SCIENTIFIC CORP	5,719,175.00	148,550	1.14	0	
MML EQUITY FUND	EQUITY	CISCO SYSTEMS INC	12,437,859.00	255,660	2.48	0	
MML EQUITY FUND	EQUITY	WALT DISNEY CO/THE	6,091,404.60	52,090	1.21	0	
MML EQUITY FUND	EQUITY	GENERAL ELECTRIC CO	2,382,867.40	211,060	0.47	0	
MML EQUITY FUND	EQUITY	MICROSOFT CORP	7,755,429.70	67,810	1.54	0	
MML EQUITY FUND	EQUITY	FEDEX CORP	3,144,717.40	13,060	0.63	0	
MML EQUITY FUND	EQUITY	HALLIBURTON CO	2,259,831.21	55,757	0.45	0	
MML EQUITY FUND	EQUITY	CBRE GROUP INC A	83,790.00	1,900	0.02	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	MICHAEL KORS HOLDINGS LTD	301,664.00	4,400	0.09		0
MML EQUITY FUND	EQUITY	ALLISON TRANSMISSION HOLDING	286,055.00	5,500	0.08		0
MML EQUITY FUND	EQUITY	DUKE ENERGY CORP	1,720,430.00	21,500	0.49		0
MML EQUITY FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	1,946,088.00	45,300	0.55		0
MML EQUITY FUND	EQUITY	EATON CORP PLC	1,465,737.00	16,900	0.42		0
MML EQUITY FUND	EQUITY	ABBVIE INC	4,606,046.00	48,700	1.31		0
MML EQUITY FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	476,669.00	8,300	0.14		0
MML EQUITY FUND	EQUITY	CDW CORP/DE	524,628.00	5,900	0.15		0
MML EQUITY FUND	EQUITY	DOLLAR GENERAL CORP	1,016,490.00	9,300	0.29		0
MML EQUITY FUND	EQUITY	CIT GROUP INC	263,211.00	5,100	0.07		0
MML EQUITY FUND	EQUITY	LYONDELLBASELL INDU CL A	1,814,427.00	17,700	0.52		0
MML EQUITY FUND	EQUITY	E TRADE FINANCIAL CORP	497,705.00	9,500	0.14		0
MML EQUITY FUND	EQUITY	GARMIN LTD	511,365.00	7,300	0.15		0
MML EQUITY FUND	EQUITY	UNITED CONTINENTAL HOLDINGS	757,010.00	8,500	0.22		0
MML EQUITY FUND	EQUITY	HOWARD HUGHES CORP/THE	62,110.00	500	0.02		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00		0
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00		0
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00		0
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00		0
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41		0
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69		0
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98		0
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82		0
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88		0
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97		0
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75		0
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00		0
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06		0
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89		0
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07		0
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82		0
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32		0
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	APTIV PLC	822,220.00	9,800	0.23		0
MML EQUITY FUND	EQUITY	AFLAC INC	1,407,393.00	29,900	0.40		0
MML EQUITY FUND	EQUITY	METLIFE INC	1,896,832.00	40,600	0.54		0
MML EQUITY FUND	EQUITY	MURPHY OIL CORP	183,370.00	5,500	0.05		0
MML EQUITY FUND	EQUITY	CARLISLE COS INC	304,500.00	2,500	0.09		0
MML EQUITY FUND	EQUITY	LABORATORY CRP OF AMER HLDGS	729,456.00	4,200	0.21		0
MML EQUITY FUND	EQUITY	PARKER HANNIFIN CORP	754,113.00	4,100	0.21		0
MML EQUITY FUND	EQUITY	BLACKROCK INC	1,225,458.00	2,600	0.35		0
MML EQUITY FUND	EQUITY	PACCAR INC	927,384.00	13,600	0.26		0
MML EQUITY FUND	EQUITY	NATIONAL OILWELL VARCO INC	628,968.00	14,600	0.18		0
MML EQUITY FUND	EQUITY	RAYMOND JAMES FINANCIAL INC	469,455.00	5,100	0.13		0
MML EQUITY FUND	EQUITY	LEGGETT + PLATT INC	179,539.00	4,100	0.05		0
MML EQUITY FUND	EQUITY	VERIZON COMMUNICATIONS INC	8,323,501.00	155,900	2.37		0
MML EQUITY FUND	EQUITY	KANSAS CITY SOUTHERN	385,152.00	3,400	0.11		0
MML EQUITY FUND	EQUITY	JUNIPER NETWORKS INC	320,679.00	10,700	0.09		0
MML EQUITY FUND	EQUITY	NEWFIELD EXPLORATION CO	178,746.00	6,200	0.05		0
MML EQUITY FUND	EQUITY	XCEL ENERGY INC	783,686.00	16,600	0.22		0
MML EQUITY FUND	EQUITY	NASDAQ INC	446,160.00	5,200	0.13		0
MML EQUITY FUND	EQUITY	DAVITA INC	530,062.00	7,400	0.15		0
MML EQUITY FUND	EQUITY	ISHARES RUSSELL 1000 VALUE ETF	5,280,054.00	41,700	1.50		0
MML EQUITY FUND	EQUITY	AETNA INC	2,393,630.00	11,800	0.68		0
MML EQUITY FUND	EQUITY	T ROWE PRICE GROUP INC	960,784.00	8,800	0.27		0
MML EQUITY FUND	EQUITY	ALLIANCE DATA SYSTEMS CORP	519,552.00	2,200	0.15		0
MML EQUITY FUND	EQUITY	BUNGE LTD	302,324.00	4,400	0.09		0
MML EQUITY FUND	EQUITY	AMERISOURCEBERGEN CORP	544,098.00	5,900	0.15		0
MML EQUITY FUND	EQUITY	CHEVRON CORP	8,315,040.00	68,000	2.36		0
MML EQUITY FUND	EQUITY	FOOT LOCKER INC	188,626.00	3,700	0.05		0
MML EQUITY FUND	EQUITY	PRUDENTIAL FINANCIAL INC	1,631,252.00	16,100	0.46		0
MML EQUITY FUND	EQUITY	JETBLUE AIRWAYS CORP	214,896.00	11,100	0.06		0
MML EQUITY FUND	EQUITY	NOBLE ENERGY INC	243,282.00	7,800	0.07		0
MML EQUITY FUND	EQUITY	JM SMUCKER CO/THE	472,006.00	4,600	0.13		0
MML EQUITY FUND	EQUITY	SKYWORKS SOLUTIONS INC	507,976.00	5,600	0.14		0
MML EQUITY FUND	EQUITY	CONOCOPHILLIPS	3,397,860.00	43,900	0.97		0
MML EQUITY FUND	EQUITY	CARMAX INC	530,157.00	7,100	0.15		0
MML EQUITY FUND	EQUITY	COMCAST CORP CLASS A	1,802,369.00	50,900	0.51		0
MML EQUITY FUND	EQUITY	CARNIVAL CORP	1,313,662.00	20,600	0.37		0
MML EQUITY FUND	EQUITY	CARTER S INC	167,620.00	1,700	0.05		0
MML EQUITY FUND	EQUITY	BIOGEN INC	2,897,142.00	8,200	0.82		0
MML EQUITY FUND	EQUITY	REGIONS FINANCIAL CORP	801,895.00	43,700	0.23		0
MML EQUITY FUND	EQUITY	WESTLAKE CHEMICAL CORP	407,239.00	4,900	0.12		0
MML EQUITY FUND	EQUITY	LAS VEGAS SANDS CORP	522,104.00	8,800	0.15		0
MML EQUITY FUND	EQUITY	CELANESE CORP	604,200.00	5,300	0.17		0
MML EQUITY FUND	EQUITY	HUNTSMAN CORP	226,009.00	8,300	0.06		0
MML EQUITY FUND	EQUITY	LAZARD LTD CL A	245,463.00	5,100	0.07		0
MML EQUITY FUND	EQUITY	WESTERN ALLIANCE BANCORP	199,115.00	3,500	0.06		0
MML EQUITY FUND	EQUITY	AMERIPRISE FINANCIAL INC	945,024.00	6,400	0.27		0
MML EQUITY FUND	EQUITY	VIACOM INC CLASS B	364,608.00	10,800	0.10		0
MML EQUITY FUND	EQUITY	CBS CORP CLASS B NON VOTING	603,225.00	10,500	0.17		0
MML EQUITY FUND	EQUITY	HESS CORP	866,118.00	12,100	0.25		0
MML EQUITY FUND	EQUITY	HANESBRANDS INC	29,488.00	1,600	0.01		0
MML EQUITY FUND	EQUITY	WESTERN UNION CO	337,362.00	17,700	0.10		0
MML EQUITY FUND	EQUITY	SPIRIT AEROSYSTEMS HOLD CL A	440,016.00	4,800	0.13		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	TRAVELERS COS INC/THE	3,126,011.00	24,100	0.89		0
MML EQUITY FUND	EQUITY	DELTA AIR LINES INC	1,572,976.00	27,200	0.45		0
MML EQUITY FUND	EQUITY	MACY S INC	312,570.00	9,000	0.09		0
MML EQUITY FUND	EQUITY	DISCOVER FINANCIAL SERVICES	1,116,170.00	14,600	0.32		0
MML EQUITY FUND	EQUITY	BANK OF NEW YORK MELLON CORP	1,993,709.00	39,100	0.57		0
MML EQUITY FUND	EQUITY	REINSURANCE GROUP OF AMERICA	375,856.00	2,600	0.11		0
MML EQUITY FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	2,406,448.00	45,200	0.68		0
MML EQUITY FUND	EQUITY	INGERSOLL RAND PLC	971,850.00	9,500	0.28		0
MML EQUITY FUND	EQUITY	MERCK + CO. INC.	5,852,550.00	82,500	1.66		0
MML EQUITY FUND	EQUITY	HYATT HOTELS CORP CL A	119,385.00	1,500	0.03		0
MML EQUITY FUND	EQUITY	MARATHON PETROLEUM CORP	1,535,424.00	19,200	0.44		0
MML EQUITY FUND	EQUITY	HOLLYFRONTIER CORP	447,360.00	6,400	0.13		0
MML EQUITY FUND	EQUITY	PVH CORP	447,640.00	3,100	0.13		0
MML EQUITY FUND	EQUITY	CONAGRA BRANDS INC	400,846.00	11,800	0.11		0
MML EQUITY FUND	EQUITY	GENERAL DYNAMICS CORP	982,656.00	4,800	0.28		0
MML EQUITY FUND	EQUITY	HONEYWELL INTERNATIONAL INC	4,592,640.00	27,600	1.31		0
MML EQUITY FUND	EQUITY	PROCTER + GAMBLE CO/THE	882,238.00	10,600	0.25		0
MML EQUITY FUND	EQUITY	AES CORP	287,000.00	20,500	0.08		0
MML EQUITY FUND	EQUITY	AMGEN INC	5,223,708.00	25,200	1.49		0
MML EQUITY FUND	EQUITY	APPLE INC	13,092,920.00	58,000	3.72		0
MML EQUITY FUND	EQUITY	BEST BUY CO INC	888,832.00	11,200	0.25		0
MML EQUITY FUND	EQUITY	CAPITAL ONE FINANCIAL CORP	1,661,275.00	17,500	0.47		0
MML EQUITY FUND	EQUITY	CISCO SYSTEMS INC	8,586,725.00	176,500	2.44		0
MML EQUITY FUND	EQUITY	WALT DISNEY CO/THE	6,595,416.00	56,400	1.88		0
MML EQUITY FUND	EQUITY	EXXON MOBIL CORP	11,001,588.00	129,400	3.13		0
MML EQUITY FUND	EQUITY	GAP INC/THE	429,865.00	14,900	0.12		0
MML EQUITY FUND	EQUITY	MORGAN STANLEY	3,236,615.00	69,500	0.92		0
MML EQUITY FUND	EQUITY	OMNICOM GROUP	476,140.00	7,000	0.14		0
MML EQUITY FUND	EQUITY	ORACLE CORP	7,465,888.00	144,800	2.12		0
MML EQUITY FUND	EQUITY	PFIZER INC	9,942,192.00	225,600	2.83		0
MML EQUITY FUND	EQUITY	WALMART INC	5,089,922.00	54,200	1.45		0
MML EQUITY FUND	EQUITY	WELLS FARGO + CO	9,823,464.00	186,900	2.79		0
MML EQUITY FUND	EQUITY	GENUINE PARTS CO	457,240.00	4,600	0.13		0
MML EQUITY FUND	EQUITY	KIMBERLY CLARK CORP	636,384.00	5,600	0.18		0
MML EQUITY FUND	EQUITY	MASCO CORP	336,720.00	9,200	0.10		0
MML EQUITY FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	2,478,658.00	18,200	0.70		0
MML EQUITY FUND	EQUITY	TORCHMARK CORP	918,914.00	10,600	0.26		0
MML EQUITY FUND	EQUITY	INTL BUSINESS MACHINES CORP	5,398,197.00	35,700	1.53		0
MML EQUITY FUND	EQUITY	SONOCO PRODUCTS CO	216,450.00	3,900	0.06		0
MML EQUITY FUND	EQUITY	BRISTOL MYERS SQUIBB CO	2,955,008.00	47,600	0.84		0
MML EQUITY FUND	EQUITY	LOWE S COS INC	3,249,406.00	28,300	0.92		0
MML EQUITY FUND	EQUITY	NUCOR CORP	774,090.00	12,200	0.22		0
MML EQUITY FUND	EQUITY	INTEL CORP	8,450,723.00	178,700	2.40		0
MML EQUITY FUND	EQUITY	JOHNSON + JOHNSON	13,291,954.00	96,200	3.78		0
MML EQUITY FUND	EQUITY	STATE STREET CORP	1,181,298.00	14,100	0.34		0
MML EQUITY FUND	EQUITY	TARGET CORP	1,852,410.00	21,000	0.53		0
MML EQUITY FUND	EQUITY	UNITED TECHNOLOGIES CORP	4,054,490.00	29,000	1.15		0
MML EQUITY FUND	EQUITY	AMERICAN EXPRESS CO	3,567,415.00	33,500	1.01		0
MML EQUITY FUND	EQUITY	HARLEY DAVIDSON INC	31,710.00	700	0.01		0
MML EQUITY FUND	EQUITY	INTERPUBLIC GROUP OF COS INC	336,189.00	14,700	0.10		0
MML EQUITY FUND	EQUITY	KROGER CO	791,792.00	27,200	0.23		0
MML EQUITY FUND	EQUITY	UNITED PARCEL SERVICE CL B	3,093,875.00	26,500	0.88		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	SNAP ON INC	422,280.00	2,300	0.12	0	
MML EQUITY FUND	EQUITY	DEERE + CO	781,716.00	5,200	0.22	0	
MML EQUITY FUND	EQUITY	ZIONS BANCORP NA	381,140.00	7,600	0.11	0	
MML EQUITY FUND	EQUITY	CIGNA CORP	1,915,900.00	9,200	0.54	0	
MML EQUITY FUND	EQUITY	GOLDMAN SACHS GROUP INC	3,273,904.00	14,600	0.93	0	
MML EQUITY FUND	EQUITY	AUTOZONE INC	853,270.00	1,100	0.24	0	
MML EQUITY FUND	EQUITY	AVERY DENNISON CORP	108,350.00	1,000	0.03	0	
MML EQUITY FUND	EQUITY	CORNING INC	1,592,030.00	45,100	0.45	0	
MML EQUITY FUND	EQUITY	PROGRESSIVE CORP	461,760.00	6,500	0.13	0	
MML EQUITY FUND	EQUITY	MCKESSON CORP	994,875.00	7,500	0.28	0	
MML EQUITY FUND	EQUITY	RENAISSANCERE HOLDINGS LTD	160,296.00	1,200	0.05	0	
MML EQUITY FUND	EQUITY	EBAY INC	363,220.00	11,000	0.10	0	
MML EQUITY FUND	EQUITY	AMERICAN FINANCIAL GROUP INC	710,208.00	6,400	0.20	0	
MML EQUITY FUND	EQUITY	BORGWARNER INC	350,796.00	8,200	0.10	0	
MML EQUITY FUND	EQUITY	JPMORGAN CHASE + CO	14,940,016.00	132,400	4.25	0	
MML EQUITY FUND	EQUITY	US BANCORP	3,363,997.00	63,700	0.96	0	
MML EQUITY FUND	EQUITY	LEAR CORP	391,500.00	2,700	0.11	0	
MML EQUITY FUND	EQUITY	DOVER CORP	433,797.00	4,900	0.12	0	
MML EQUITY FUND	EQUITY	FEDEX CORP	1,974,478.00	8,200	0.56	0	
MML EQUITY FUND	EQUITY	KLA TENCOR CORP	630,602.00	6,200	0.18	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY FUND	EQUITY	AMEREN CORPORATION	581,624.00	9,200	0.17		0
MML EQUITY FUND	EQUITY	AMERICAN ELECTRIC POWER	1,290,016.00	18,200	0.37		0
MML EQUITY FUND	EQUITY	APACHE CORP	104,874.00	2,200	0.03		0
MML EQUITY FUND	EQUITY	ARCHER DANIELS MIDLAND CO	1,085,832.00	21,600	0.31		0
MML EQUITY FUND	EQUITY	ARROW ELECTRONICS INC	265,392.00	3,600	0.08		0
MML EQUITY FUND	EQUITY	WR BERKLEY CORP	391,657.00	4,900	0.11		0
MML EQUITY FUND	EQUITY	BRUNSWICK CORP	241,272.00	3,600	0.07		0
MML EQUITY FUND	EQUITY	CINCINNATI FINANCIAL CORP	491,584.00	6,400	0.14		0
MML EQUITY FUND	EQUITY	DR HORTON INC	489,288.00	11,600	0.14		0
MML EQUITY FUND	EQUITY	DTE ENERGY COMPANY	774,823.00	7,100	0.22		0
MML EQUITY FUND	EQUITY	DEVON ENERGY CORP	611,082.00	15,300	0.17		0
MML EQUITY FUND	EQUITY	EASTMAN CHEMICAL CO	536,032.00	5,600	0.15		0
MML EQUITY FUND	EQUITY	FMC CORP	191,796.00	2,200	0.05		0
MML EQUITY FUND	EQUITY	HELMERICH + PAYNE	302,588.00	4,400	0.09		0
MML EQUITY FUND	EQUITY	INTERNATIONAL PAPER CO	747,080.00	15,200	0.21		0
MML EQUITY FUND	EQUITY	KEYCORP	815,490.00	41,000	0.23		0
MML EQUITY FUND	EQUITY	LAM RESEARCH CORP	955,710.00	6,300	0.27		0
MML EQUITY FUND	EQUITY	PUBLIC SERVICE ENTERPRISE GP	1,024,126.00	19,400	0.29		0
MML EQUITY FUND	EQUITY	MARATHON OIL CORP	761,256.00	32,700	0.22		0
MML EQUITY FUND	EQUITY	UNITED RENTALS INC	572,600.00	3,500	0.16		0
MML EQUITY FUND	EQUITY	VALERO ENERGY CORP	1,865,500.00	16,400	0.53		0
MML EQUITY FUND	EQUITY	AMERCO	285,320.00	800	0.08		0
MML EQUITY FUND	EQUITY	CREDIT ACCEPTANCE CORP	262,842.00	600	0.07		0
MML EQUITY FUND	EQUITY	QUEST DIAGNOSTICS INC	550,341.00	5,100	0.16		0
MML EQUITY FUND	EQUITY	RELIANCE STEEL + ALUMINUM	247,341.00	2,900	0.07		0
MML EQUITY FUND	EQUITY	EAST WEST BANCORP INC	344,109.00	5,700	0.10		0
MML EQUITY FUND	EQUITY	GENTEX CORP	223,184.00	10,400	0.06		0
MML EQUITY FUND	EQUITY	JONES LANG LASALLE INC	259,776.00	1,800	0.07		0
MML EQUITY FUND	EQUITY	STEEL DYNAMICS INC	411,229.00	9,100	0.12		0
MML EQUITY FUND	EQUITY	STERICYCLE INC	23,472.00	400	0.01		0
MML EQUITY FUND	EQUITY	TERADYNE INC	281,048.00	7,600	0.08		0
MML EQUITY FUND	EQUITY	UGI CORP	299,592.00	5,400	0.09		0
MML EQUITY FUND	EQUITY	UMPQUA HOLDINGS CORP	133,120.00	6,400	0.04		0
MML EQUITY FUND	EQUITY	CRANE CO	98,350.00	1,000	0.03		0
MML EQUITY FUND	EQUITY	CULLEN/FROST BANKERS INC	271,544.00	2,600	0.08		0
MML EQUITY FUND	EQUITY	GILEAD SCIENCES INC	3,883,663.00	50,300	1.10		0
MML EQUITY FUND	EQUITY	WEBSTER FINANCIAL CORP	218,152.00	3,700	0.06		0
MML EQUITY INCOME FUND	EQUITY	WILLIS TOWERS WATSON PLC	2,190,348.54	15,541	0.44		0
MML EQUITY INCOME FUND	EQUITY	CHUBB LTD	7,332,960.44	54,871	1.47		0
MML EQUITY INCOME FUND	EQUITY	NEXTERA ENERGY INC	3,778,803.35	66,353	0.76		0
MML EQUITY INCOME FUND	EQUITY	JOHNSON CONTROLS INTERNATION	7,682,465.00	219,499	1.54		0
MML EQUITY INCOME FUND	EQUITY	ADIENT PLC	1,276,828.11	32,481	0.26		0
MML EQUITY INCOME FUND	EQUITY	DTE ENERGY CO	801,918.60	15,505	0.16		0
MML EQUITY INCOME FUND	EQUITY	BECTON DICKINSON AND CO	4,153,562.64	63,549	0.83		0
MML EQUITY INCOME FUND	EQUITY	BRIGHTHOUSE FINANCIAL INC	3,204,126.24	72,426	0.64		0
MML EQUITY INCOME FUND	EQUITY	MARSH + MCLENNAN COS	2,216,896.00	26,800	0.44		0
MML EQUITY INCOME FUND	EQUITY	MATTEL INC	2,679,990.00	170,700	0.54		0
MML EQUITY INCOME FUND	EQUITY	NUCOR CORP	2,899,665.00	45,700	0.58		0
MML EQUITY INCOME FUND	EQUITY	TEXAS INSTRUMENTS INC	3,537,673.17	32,973	0.71		0
MML EQUITY INCOME FUND	EQUITY	JOHNSON + JOHNSON	9,685,717.00	70,100	1.94		0
MML EQUITY INCOME FUND	EQUITY	STATE STREET CORP	6,853,204.00	81,800	1.37		0
MML EQUITY INCOME FUND	EQUITY	PEPSICO INC	2,716,740.00	24,300	0.54		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INCOME FUND	EQUITY	UNITED PARCEL SERVICE CL B	6,354,936.00	54,432	1.27		0
MML EQUITY INCOME FUND	EQUITY	EQUITY RESIDENTIAL	4,187,632.00	63,200	0.84		0
MML EQUITY INCOME FUND	EQUITY	SL GREEN REALTY CORP	2,927,948.13	30,021	0.59		0
MML EQUITY INCOME FUND	EQUITY	BOEING CO/THE	9,297,500.00	25,000	1.86		0
MML EQUITY INCOME FUND	EQUITY	KOHL'S CORP	3,019,275.00	40,500	0.60		0
MML EQUITY INCOME FUND	EQUITY	QUALCOMM INC	10,833,312.00	150,400	2.17		0
MML EQUITY INCOME FUND	EQUITY	SOUTHWEST AIRLINES CO	2,129,545.00	34,100	0.43		0
MML EQUITY INCOME FUND	EQUITY	VULCAN MATERIALS CO	2,824,480.00	25,400	0.56		0
MML EQUITY INCOME FUND	EQUITY	WEYERHAEUSER CO	2,793,646.17	86,571	0.56		0
MML EQUITY INCOME FUND	EQUITY	METLIFE INC	7,344,384.00	157,200	1.47		0
MML EQUITY INCOME FUND	EQUITY	GLAXOSMITHKLINE PLC SPON ADR	1,883,973.00	46,900	0.38		0
MML EQUITY INCOME FUND	EQUITY	TYSON FOODS INC CL A	5,637,491.00	94,700	1.13		0
MML EQUITY INCOME FUND	EQUITY	PACCAR INC	954,660.00	14,000	0.19		0
MML EQUITY INCOME FUND	EQUITY	VERIZON COMMUNICATIONS INC	10,135,290.65	189,835	2.03		0
MML EQUITY INCOME FUND	EQUITY	GLAXOSMITHKLINE PLC	3,023,930.89	150,933	0.60		0
MML EQUITY INCOME FUND	EQUITY	JPMORGAN CHASE + CO	18,502,374.80	163,970	3.70		0
MML EQUITY INCOME FUND	EQUITY	US BANCORP	8,671,402.00	164,200	1.73		0
MML EQUITY INCOME FUND	EQUITY	CHEVRON CORP	5,111,304.00	41,800	1.02		0
MML EQUITY INCOME FUND	EQUITY	COMCAST CORP CLASS A	5,038,665.95	142,295	1.01		0
MML EQUITY INCOME FUND	EQUITY	TRANSCANADA CORP	5,721,044.00	141,400	1.14		0
MML EQUITY INCOME FUND	EQUITY	LAS VEGAS SANDS CORP	4,265,827.00	71,900	0.85		0
MML EQUITY INCOME FUND	EQUITY	CF INDUSTRIES HOLDINGS INC	6,042,840.00	111,000	1.21		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00		0
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00		0
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00		0
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00		0
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41		0
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69		0
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98		0
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82		0
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88		0
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97		0
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INCOME FUND	EQUITY	EDISON INTERNATIONAL	3,671,640.00	54,250	0.73		0
MML EQUITY INCOME FUND	EQUITY	LOEWS CORP	5,302,429.49	105,563	1.06		0
MML EQUITY INCOME FUND	EQUITY	NISOURCE INC	5,601,517.60	224,780	1.12		0
MML EQUITY INCOME FUND	EQUITY	SOUTHERN CO/THE	8,603,457.20	197,327	1.72		0
MML EQUITY INCOME FUND	EQUITY	ALASKA AIR GROUP INC	2,954,094.00	42,900	0.59		0
MML EQUITY INCOME FUND	EQUITY	APACHE CORP	4,003,612.62	83,986	0.80		0
MML EQUITY INCOME FUND	EQUITY	ARCHER DANIELS MIDLAND CO	3,036,308.00	60,400	0.61		0
MML EQUITY INCOME FUND	EQUITY	INTERNATIONAL PAPER CO	4,438,245.00	90,300	0.89		0
MML EQUITY INCOME FUND	EQUITY	KEYCORP	3,380,623.74	169,966	0.68		0
MML EQUITY INCOME FUND	EQUITY	NORTHROP GRUMMAN CORP	380,844.00	1,200	0.08		0
MML EQUITY INCOME FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	5,193,144.00	63,200	1.04		0
MML EQUITY INCOME FUND	EQUITY	P G + E CORP	2,931,021.04	63,704	0.59		0
MML EQUITY INCOME FUND	EQUITY	RAYONIER INC	2,895,522.21	85,641	0.58		0
MML EQUITY INCOME FUND	EQUITY	APPLIED MATERIALS INC	2,438,815.00	63,100	0.49		0
MML EQUITY INCOME FUND	EQUITY	FLOWERVE CORP	814,443.48	14,892	0.16		0
MML EQUITY INCOME FUND	EQUITY	STERICYCLE INC	1,349,757.36	23,002	0.27		0
MML EQUITY INCOME FUND	EQUITY	WESTERN DIGITAL CORP	989,326.00	16,900	0.20		0
MML EQUITY INCOME FUND	EQUITY	GILEAD SCIENCES INC	6,315,778.00	81,800	1.26		0
MML EQUITY INCOME FUND	EQUITY	AKZO NOBEL	745,835.09	7,977	0.15		0
MML EQUITY INCOME FUND	EQUITY	TELEFONICA SA	2,342,685.37	297,256	0.47		0
MML EQUITY INCOME FUND	EQUITY	BECTON DICKINSON AND CO	2,088,000.00	8,000	0.42		0
MML EQUITY INCOME FUND	EQUITY	CENTURYLINK INC	1,142,786.00	53,905	0.23		0
MML EQUITY INCOME FUND	EQUITY	CONAGRA BRANDS INC	1,980,451.00	58,300	0.40		0
MML EQUITY INCOME FUND	EQUITY	FRANKLIN RESOURCES INC	3,922,890.00	129,000	0.78		0
MML EQUITY INCOME FUND	EQUITY	CVS HEALTH CORP	5,132,780.16	65,203	1.03		0
MML EQUITY INCOME FUND	EQUITY	CISCO SYSTEMS INC	8,747,270.00	179,800	1.75		0
MML EQUITY INCOME FUND	EQUITY	WALT DISNEY CO/THE	1,742,406.00	14,900	0.35		0
MML EQUITY INCOME FUND	EQUITY	EXXON MOBIL CORP	13,470,738.84	158,442	2.69		0
MML EQUITY INCOME FUND	EQUITY	GENERAL ELECTRIC CO	1,612,212.00	142,800	0.32		0
MML EQUITY INCOME FUND	EQUITY	MICROSOFT CORP	10,487,729.00	91,700	2.10		0
MML EQUITY INCOME FUND	EQUITY	MORGAN STANLEY	8,224,262.00	176,600	1.65		0
MML EQUITY INCOME FUND	EQUITY	PFIZER INC	8,393,307.78	190,454	1.68		0
MML EQUITY INCOME FUND	EQUITY	WALMART INC	5,202,614.00	55,400	1.04		0
MML EQUITY INCOME FUND	EQUITY	WELLS FARGO + CO	14,827,176.00	282,100	2.97		0
MML EQUITY INCOME FUND	EQUITY	KIMBERLY CLARK CORP	7,261,596.00	63,900	1.45		0
MML EQUITY INCOME FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	4,807,507.00	35,300	0.96		0
MML EQUITY INCOME FUND	EQUITY	BANK OF AMERICA CORP	726,984.42	24,677	0.15		0
MML EQUITY INCOME FUND	EQUITY	EMERSON ELECTRIC CO	4,066,398.00	53,100	0.81		0
MML EQUITY INCOME FUND	EQUITY	HARRIS CORP	8,297,212.35	49,035	1.66		0
MML EQUITY INCOME FUND	CASH	US DOLLAR	0.33	0	0.00		0
MML EQUITY INCOME FUND	EQUITY	BRISTOL MYERS SQUIBB CO	3,706,176.00	59,700	0.74		0
MML EQUITY INCOME FUND	EQUITY	ILLINOIS TOOL WORKS	211,680.00	1,500	0.04		0
MML EQUITY INCOME FUND	EQUITY	NEWS CORP CLASS A	3,435,810.34	260,486	0.69		0
MML EQUITY INCOME FUND	EQUITY	TWENTY FIRST CENTURY FOX B	10,602,748.00	231,400	2.12		0
MML EQUITY INCOME FUND	EQUITY	VODAFONE GROUP PLC	97,511.97	45,482	0.02		0
MML EQUITY INCOME FUND	EQUITY	PENTAIR PLC	1,677,645.00	38,700	0.34		0
MML EQUITY INCOME FUND	EQUITY	ANTHEM INC	9,564,345.00	34,900	1.91		0
MML EQUITY INCOME FUND	EQUITY	MEDTRONIC PLC	7,776,050.13	79,049	1.56		0
MML EQUITY INCOME FUND	EQUITY	NIELSEN HOLDINGS PLC	4,734,119.64	171,154	0.95		0
MML EQUITY INCOME FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	1,017,744.00	62,400	0.20		0
MML EQUITY INDEX FUND	EQUITY	PACKAGING CORP OF AMERICA	306,144.79	2,791	0.04		0
MML EQUITY INDEX FUND	EQUITY	EXPEDITORS INTL WASH INC	379,855.98	5,166	0.05		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	NEWMONT MINING CORP	476,495.60	15,778	0.06		0
MML EQUITY INDEX FUND	EQUITY	ROYAL CARIBBEAN CRUISES LTD	662,044.30	5,095	0.09		0
MML EQUITY INDEX FUND	EQUITY	FIFTH THIRD BANCORP	554,044.48	19,844	0.07		0
MML EQUITY INDEX FUND	EQUITY	FREEPORT MCMORAN INC	599,924.16	43,098	0.08		0
MML EQUITY INDEX FUND	EQUITY	BB+T CORP	1,119,526.56	23,064	0.15		0
MML EQUITY INDEX FUND	EQUITY	COMERICA INC	458,667.00	5,085	0.06		0
MML EQUITY INDEX FUND	EQUITY	SEMPRA ENERGY	926,380.00	8,144	0.12		0
MML EQUITY INDEX FUND	EQUITY	PROGRESSIVE CORP	1,233,893.76	17,369	0.16		0
MML EQUITY INDEX FUND	EQUITY	AMAZON.COM INC	24,390,531.00	12,177	3.24		0
MML EQUITY INDEX FUND	EQUITY	MCKESSON CORP	782,767.65	5,901	0.10		0
MML EQUITY INDEX FUND	EQUITY	MOHAWK INDUSTRIES INC	328,781.25	1,875	0.04		0
MML EQUITY INDEX FUND	EQUITY	CINTAS CORP	505,800.17	2,557	0.07		0
MML EQUITY INDEX FUND	EQUITY	ROBERT HALF INTL INC	257,238.90	3,655	0.03		0
MML EQUITY INDEX FUND	EQUITY	FASTENAL CO	493,634.16	8,508	0.07		0
MML EQUITY INDEX FUND	EQUITY	EBAY INC	913,597.36	27,668	0.12		0
MML EQUITY INDEX FUND	EQUITY	BROWN FORMAN CORP CLASS B	253,811.55	5,021	0.03		0
MML EQUITY INDEX FUND	EQUITY	ALLIANT ENERGY CORP	291,561.93	6,849	0.04		0
MML EQUITY INDEX FUND	EQUITY	BORGWARNER INC	266,305.50	6,225	0.04		0
MML EQUITY INDEX FUND	EQUITY	EOG RESOURCES INC	2,195,607.27	17,211	0.29		0
MML EQUITY INDEX FUND	EQUITY	EDISON INTERNATIONAL	652,232.16	9,637	0.09		0
MML EQUITY INDEX FUND	EQUITY	LINCOLN NATIONAL CORP	437,692.54	6,469	0.06		0
MML EQUITY INDEX FUND	EQUITY	LOEWS CORP	412,287.84	8,208	0.05		0
MML EQUITY INDEX FUND	EQUITY	NISOURCE INC	271,802.44	10,907	0.04		0
MML EQUITY INDEX FUND	EQUITY	ONEOK INC	834,020.37	12,303	0.11		0
MML EQUITY INDEX FUND	EQUITY	PINNACLE WEST CAPITAL	262,164.98	3,311	0.03		0
MML EQUITY INDEX FUND	EQUITY	SOUTHERN CO/THE	1,316,109.60	30,186	0.18		0
MML EQUITY INDEX FUND	EQUITY	UNUM GROUP	255,635.01	6,543	0.03		0
MML EQUITY INDEX FUND	EQUITY	SMITH (A.O.) CORP	229,010.67	4,291	0.03		0
MML EQUITY INDEX FUND	EQUITY	DARDEN RESTAURANTS INC	407,177.78	3,662	0.05		0
MML EQUITY INDEX FUND	EQUITY	MID AMERICA APARTMENT COMM	336,604.80	3,360	0.04		0
MML EQUITY INDEX FUND	EQUITY	PERKINELMER INC	318,267.44	3,272	0.04		0
MML EQUITY INDEX FUND	EQUITY	REALTY INCOME CORP	487,774.86	8,574	0.06		0
MML EQUITY INDEX FUND	EQUITY	ROPER TECHNOLOGIES INC	913,215.43	3,083	0.12		0
MML EQUITY INDEX FUND	EQUITY	PIONEER NATURAL RESOURCES CO	878,091.79	5,041	0.12		0
MML EQUITY INDEX FUND	EQUITY	PUBLIC SERVICE ENTERPRISE GP	798,765.49	15,131	0.11		0
MML EQUITY INDEX FUND	EQUITY	PULTEGROUP INC	192,438.13	7,769	0.03		0
MML EQUITY INDEX FUND	EQUITY	SCANA CORP	164,076.91	4,219	0.02		0
MML EQUITY INDEX FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	2,920,661.28	11,966	0.39		0
MML EQUITY INDEX FUND	EQUITY	MARATHON OIL CORP	587,470.80	25,235	0.08		0
MML EQUITY INDEX FUND	EQUITY	UNION PACIFIC CORP	3,579,166.23	21,981	0.48		0
MML EQUITY INDEX FUND	EQUITY	UNITED RENTALS INC	404,582.80	2,473	0.05		0
MML EQUITY INDEX FUND	EQUITY	VALERO ENERGY CORP	1,449,743.75	12,745	0.19		0
MML EQUITY INDEX FUND	EQUITY	COPART INC	316,033.49	6,133	0.04		0
MML EQUITY INDEX FUND	EQUITY	HOLOGIC INC	330,913.50	8,075	0.04		0
MML EQUITY INDEX FUND	EQUITY	HUNT (JB) TRANSPRT SVCS INC	311,028.10	2,615	0.04		0
MML EQUITY INDEX FUND	EQUITY	QUEST DIAGNOSTICS INC	433,474.47	4,017	0.06		0
MML EQUITY INDEX FUND	EQUITY	TOTAL SYSTEM SERVICES INC	494,588.66	5,009	0.07		0
MML EQUITY INDEX FUND	EQUITY	VENTAS INC	572,893.30	10,535	0.08		0
MML EQUITY INDEX FUND	EQUITY	RED HAT INC	716,151.40	5,255	0.10		0
MML EQUITY INDEX FUND	EQUITY	GARTNER INC	427,791.50	2,699	0.06		0
MML EQUITY INDEX FUND	EQUITY	F5 NETWORKS INC	360,551.36	1,808	0.05		0
MML EQUITY INDEX FUND	EQUITY	INTUIT INC	1,750,980.00	7,700	0.23		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	HUNTINGTON BANCSHARES INC	487,660.20	32,685	0.06	0	
MML EQUITY INDEX FUND	EQUITY	STRYKER CORP	1,639,453.36	9,227	0.22	0	
MML EQUITY INDEX FUND	EQUITY	ESTEE LAUDER COMPANIES CL A	973,062.72	6,696	0.13	0	
MML EQUITY INDEX FUND	EQUITY	CITRIX SYSTEMS INC	423,297.28	3,808	0.06	0	
MML EQUITY INDEX FUND	EQUITY	NORTHERN TRUST CORP	677,326.16	6,632	0.09	0	
MML EQUITY INDEX FUND	EQUITY	NORDSTROM INC	207,779.94	3,474	0.03	0	
MML EQUITY INDEX FUND	EQUITY	KELLOGG CO	528,160.86	7,543	0.07	0	
MML EQUITY INDEX FUND	EQUITY	M + T BANK CORP	706,863.84	4,296	0.09	0	
MML EQUITY INDEX FUND	EQUITY	INCYTE CORP	359,492.32	5,204	0.05	0	
MML EQUITY INDEX FUND	EQUITY	RESMED INC	486,965.48	4,222	0.06	0	
MML EQUITY INDEX FUND	EQUITY	ROLLINS INC	177,093.42	2,918	0.02	0	
MML EQUITY INDEX FUND	EQUITY	STERICYCLE INC	148,577.76	2,532	0.02	0	
MML EQUITY INDEX FUND	EQUITY	TAKE TWO INTERACTIVE SOFTWARE	466,820.17	3,383	0.06	0	
MML EQUITY INDEX FUND	EQUITY	VARIAN MEDICAL SYSTEMS INC	302,882.58	2,706	0.04	0	
MML EQUITY INDEX FUND	EQUITY	VERTEX PHARMACEUTICALS INC	1,463,474.82	7,593	0.19	0	
MML EQUITY INDEX FUND	EQUITY	WESTERN DIGITAL CORP	507,190.56	8,664	0.07	0	
MML EQUITY INDEX FUND	EQUITY	ALEXANDRIA REAL ESTATE EQUIT	393,471.12	3,128	0.05	0	
MML EQUITY INDEX FUND	EQUITY	AMPHENOL CORP CL A	838,282.32	8,916	0.11	0	
MML EQUITY INDEX FUND	EQUITY	APARTMENT INVT + MGMT CO A	204,851.46	4,642	0.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	ALASKA AIR GROUP INC	251,063.56	3,646	0.03		0
MML EQUITY INDEX FUND	EQUITY	ALBEMARLE CORP	317,200.62	3,179	0.04		0
MML EQUITY INDEX FUND	EQUITY	ALLSTATE CORP	1,013,550.30	10,269	0.13		0
MML EQUITY INDEX FUND	EQUITY	AMEREN CORPORATION	455,626.54	7,207	0.06		0
MML EQUITY INDEX FUND	EQUITY	AMERICAN ELECTRIC POWER	1,044,487.68	14,736	0.14		0
MML EQUITY INDEX FUND	EQUITY	APACHE CORP	538,814.01	11,303	0.07		0
MML EQUITY INDEX FUND	EQUITY	ARCHER DANIELS MIDLAND CO	841,519.80	16,740	0.11		0
MML EQUITY INDEX FUND	EQUITY	CMS ENERGY CORP	409,346.00	8,354	0.05		0
MML EQUITY INDEX FUND	EQUITY	CSX CORP	1,796,082.75	24,255	0.24		0
MML EQUITY INDEX FUND	EQUITY	CINCINNATI FINANCIAL CORP	349,255.07	4,547	0.05		0
MML EQUITY INDEX FUND	EQUITY	CONSOLIDATED EDISON INC	700,186.10	9,190	0.09		0
MML EQUITY INDEX FUND	EQUITY	CUMMINS INC	651,472.20	4,460	0.09		0
MML EQUITY INDEX FUND	EQUITY	DR HORTON INC	428,464.44	10,158	0.06		0
MML EQUITY INDEX FUND	EQUITY	DTE ENERGY COMPANY	585,700.71	5,367	0.08		0
MML EQUITY INDEX FUND	EQUITY	DEVON ENERGY CORP	604,451.96	15,134	0.08		0
MML EQUITY INDEX FUND	EQUITY	DOMINION ENERGY INC	1,367,367.68	19,456	0.18		0
MML EQUITY INDEX FUND	EQUITY	EASTMAN CHEMICAL CO	404,225.56	4,223	0.05		0
MML EQUITY INDEX FUND	EQUITY	ENTERGY CORP	433,802.11	5,347	0.06		0
MML EQUITY INDEX FUND	EQUITY	FMC CORP	346,889.22	3,979	0.05		0
MML EQUITY INDEX FUND	EQUITY	FIRSTENERGY CORP	539,448.21	14,513	0.07		0
MML EQUITY INDEX FUND	EQUITY	CISCO SYSTEMS INC	6,610,999.85	135,889	0.88		0
MML EQUITY INDEX FUND	EQUITY	WALT DISNEY CO/THE	5,168,748.00	44,200	0.69		0
MML EQUITY INDEX FUND	EQUITY	EXXON MOBIL CORP	10,697,216.40	125,820	1.42		0
MML EQUITY INDEX FUND	EQUITY	GAP INC/THE	185,159.30	6,418	0.02		0
MML EQUITY INDEX FUND	EQUITY	GENERAL ELECTRIC CO	2,916,263.45	258,305	0.39		0
MML EQUITY INDEX FUND	EQUITY	HOME DEPOT INC	7,042,685.70	33,998	0.94		0
MML EQUITY INDEX FUND	EQUITY	MICROSOFT CORP	26,067,896.62	227,926	3.47		0
MML EQUITY INDEX FUND	EQUITY	MICRON TECHNOLOGY INC	1,561,520.52	34,524	0.21		0
MML EQUITY INDEX FUND	EQUITY	MORGAN STANLEY	1,834,066.31	39,383	0.24		0
MML EQUITY INDEX FUND	EQUITY	OMNICOM GROUP	457,230.44	6,722	0.06		0
MML EQUITY INDEX FUND	EQUITY	ORACLE CORP	4,332,999.28	84,038	0.58		0
MML EQUITY INDEX FUND	EQUITY	PFIZER INC	7,676,332.95	174,185	1.02		0
MML EQUITY INDEX FUND	EQUITY	PRAXAIR INC	1,376,330.99	8,563	0.18		0
MML EQUITY INDEX FUND	EQUITY	WALMART INC	4,005,543.23	42,653	0.53		0
MML EQUITY INDEX FUND	EQUITY	WATERS CORP	451,073.56	2,317	0.06		0
MML EQUITY INDEX FUND	EQUITY	WELLS FARGO + CO	6,770,726.64	128,819	0.90		0
MML EQUITY INDEX FUND	EQUITY	BAXTER INTERNATIONAL INC	1,139,004.75	14,775	0.15		0
MML EQUITY INDEX FUND	EQUITY	H+R BLOCK INC	158,311.00	6,148	0.02		0
MML EQUITY INDEX FUND	EQUITY	GENUINE PARTS CO	431,396.00	4,340	0.06		0
MML EQUITY INDEX FUND	EQUITY	INTL FLAVORS + FRAGRANCES	379,102.00	2,725	0.05		0
MML EQUITY INDEX FUND	EQUITY	KIMBERLY CLARK CORP	1,174,128.48	10,332	0.16		0
MML EQUITY INDEX FUND	EQUITY	MASCO CORP	336,097.80	9,183	0.04		0
MML EQUITY INDEX FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	1,879,558.19	13,801	0.25		0
MML EQUITY INDEX FUND	EQUITY	TORCHMARK CORP	270,906.25	3,125	0.04		0
MML EQUITY INDEX FUND	EQUITY	BANK OF AMERICA CORP	8,132,403.54	276,049	1.08		0
MML EQUITY INDEX FUND	EQUITY	EMERSON ELECTRIC CO	1,427,144.88	18,636	0.19		0
MML EQUITY INDEX FUND	EQUITY	WW GRAINGER INC	482,860.91	1,351	0.06		0
MML EQUITY INDEX FUND	EQUITY	HARRIS CORP	594,265.52	3,512	0.08		0
MML EQUITY INDEX FUND	EQUITY	INTL BUSINESS MACHINES CORP	4,101,873.67	27,127	0.55		0
MML EQUITY INDEX FUND	CASH	US DOLLAR	(133,729.72)	(133,730)	0.02		0
MML EQUITY INDEX FUND	EQUITY	EDWARDS LIFESCIENCES CORP	1,085,339.40	6,234	0.14		0
MML EQUITY INDEX FUND	EQUITY	ABBOTT LABORATORIES	3,824,403.52	52,132	0.51		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	BRISTOL MYERS SQUIBB CO	3,011,376.64	48,508	0.40		0
MML EQUITY INDEX FUND	EQUITY	ILLINOIS TOOL WORKS	1,292,518.08	9,159	0.17		0
MML EQUITY INDEX FUND	EQUITY	LOWE S COS INC	2,767,506.46	24,103	0.37		0
MML EQUITY INDEX FUND	EQUITY	MARSH + MCLENNAN COS	1,241,379.04	15,007	0.17		0
MML EQUITY INDEX FUND	EQUITY	MATTEL INC	159,731.80	10,174	0.02		0
MML EQUITY INDEX FUND	EQUITY	NUCOR CORP	597,001.05	9,409	0.08		0
MML EQUITY INDEX FUND	EQUITY	SYSCO CORP	1,038,465.25	14,177	0.14		0
MML EQUITY INDEX FUND	EQUITY	TEXAS INSTRUMENTS INC	3,106,474.66	28,954	0.41		0
MML EQUITY INDEX FUND	EQUITY	TEXTRON INC	527,448.60	7,380	0.07		0
MML EQUITY INDEX FUND	EQUITY	CADENCE DESIGN SYS INC	377,923.48	8,339	0.05		0
MML EQUITY INDEX FUND	EQUITY	COSTCO WHOLESALE CORP	3,062,130.56	13,037	0.41		0
MML EQUITY INDEX FUND	EQUITY	INTEL CORP	6,480,952.63	137,047	0.86		0
MML EQUITY INDEX FUND	EQUITY	JOHNSON + JOHNSON	11,015,741.42	79,726	1.47		0
MML EQUITY INDEX FUND	EQUITY	ELI LILLY + CO	3,047,604.00	28,400	0.41		0
MML EQUITY INDEX FUND	EQUITY	MCDONALD S CORP	3,856,870.95	23,055	0.51		0
MML EQUITY INDEX FUND	EQUITY	STATE STREET CORP	944,451.94	11,273	0.13		0
MML EQUITY INDEX FUND	EQUITY	SYNOPSIS INC	434,672.88	4,408	0.06		0
MML EQUITY INDEX FUND	EQUITY	AFFILIATED MANAGERS GROUP	219,709.04	1,607	0.03		0
MML EQUITY INDEX FUND	EQUITY	ALEXION PHARMACEUTICALS INC	926,362.64	6,664	0.12		0
MML EQUITY INDEX FUND	EQUITY	AMETEK INC	541,892.88	6,849	0.07		0
MML EQUITY INDEX FUND	EQUITY	ANSYS INC	463,899.80	2,485	0.06		0
MML EQUITY INDEX FUND	EQUITY	APPLIED MATERIALS INC	1,129,700.85	29,229	0.15		0
MML EQUITY INDEX FUND	EQUITY	CABOT OIL + GAS CORP	300,732.08	13,354	0.04		0
MML EQUITY INDEX FUND	EQUITY	CELGENE CORP	1,870,877.94	20,906	0.25		0
MML EQUITY INDEX FUND	EQUITY	CERNER CORP	630,895.95	9,795	0.08		0
MML EQUITY INDEX FUND	EQUITY	CHURCH + DWIGHT CO INC	429,720.06	7,238	0.06		0
MML EQUITY INDEX FUND	EQUITY	COGNIZANT TECH SOLUTIONS A	1,326,902.85	17,199	0.18		0
MML EQUITY INDEX FUND	EQUITY	COOPER COS INC/THE	401,867.50	1,450	0.05		0
MML EQUITY INDEX FUND	EQUITY	FLIR SYSTEMS INC	249,506.73	4,059	0.03		0
MML EQUITY INDEX FUND	EQUITY	FLOWSERVE CORP	211,650.30	3,870	0.03		0
MML EQUITY INDEX FUND	EQUITY	ARTHUR J GALLAGHER + CO	401,306.04	5,391	0.05		0
MML EQUITY INDEX FUND	EQUITY	IDEXX LABORATORIES INC	641,376.54	2,569	0.09		0
MML EQUITY INDEX FUND	EQUITY	AUTODESK INC	1,011,748.91	6,481	0.13		0
MML EQUITY INDEX FUND	EQUITY	JACOBS ENGINEERING GROUP INC	272,722.50	3,565	0.04		0
MML EQUITY INDEX FUND	EQUITY	LABORATORY CRP OF AMER HLDGS	525,555.68	3,026	0.07		0
MML EQUITY INDEX FUND	EQUITY	CAMPBELL SOUP CO	208,461.33	5,691	0.03		0
MML EQUITY INDEX FUND	EQUITY	PARKER HANNIFIN CORP	723,396.69	3,933	0.10		0
MML EQUITY INDEX FUND	EQUITY	VF CORP	904,969.80	9,684	0.12		0
MML EQUITY INDEX FUND	EQUITY	TYSON FOODS INC CL A	523,983.06	8,802	0.07		0
MML EQUITY INDEX FUND	EQUITY	DANAHER CORP	1,988,586.66	18,301	0.26		0
MML EQUITY INDEX FUND	EQUITY	SEALED AIR CORP	191,354.90	4,766	0.03		0
MML EQUITY INDEX FUND	EQUITY	REPUBLIC SERVICES INC	469,601.58	6,463	0.06		0
MML EQUITY INDEX FUND	EQUITY	ZIONS BANCORP NA	292,424.65	5,831	0.04		0
MML EQUITY INDEX FUND	EQUITY	AVALONBAY COMMUNITIES INC	749,417.55	4,137	0.10		0
MML EQUITY INDEX FUND	EQUITY	BOSTON PROPERTIES INC	561,659.67	4,563	0.07		0
MML EQUITY INDEX FUND	EQUITY	EQUITY RESIDENTIAL	730,781.54	11,029	0.10		0
MML EQUITY INDEX FUND	EQUITY	HOST HOTELS + RESORTS INC	462,469.80	21,918	0.06		0
MML EQUITY INDEX FUND	EQUITY	SL GREEN REALTY CORP	254,748.36	2,612	0.03		0
MML EQUITY INDEX FUND	EQUITY	DUKE REALTY CORP	299,190.02	10,546	0.04		0
MML EQUITY INDEX FUND	EQUITY	PUBLIC STORAGE	903,100.77	4,479	0.12		0
MML EQUITY INDEX FUND	EQUITY	SIMON PROPERTY GROUP INC	1,628,397.75	9,213	0.22		0
MML EQUITY INDEX FUND	EQUITY	AIR PRODUCTS + CHEMICALS INC	1,092,841.10	6,542	0.15		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	AUTOMATIC DATA PROCESSING	1,962,949.14	13,029	0.26		0
MML EQUITY INDEX FUND	EQUITY	CIGNA CORP	1,508,771.25	7,245	0.20		0
MML EQUITY INDEX FUND	EQUITY	CATERPILLAR INC	2,696,633.16	17,684	0.36		0
MML EQUITY INDEX FUND	EQUITY	COLGATE PALMOLIVE CO	1,727,376.95	25,801	0.23		0
MML EQUITY INDEX FUND	EQUITY	ECOLAB INC	1,184,002.56	7,552	0.16		0
MML EQUITY INDEX FUND	EQUITY	GENERAL MILLS INC	762,387.96	17,763	0.10		0
MML EQUITY INDEX FUND	EQUITY	GOLDMAN SACHS GROUP INC	2,339,495.92	10,433	0.31		0
MML EQUITY INDEX FUND	EQUITY	PAYCHEX INC	696,581.70	9,458	0.09		0
MML EQUITY INDEX FUND	EQUITY	ROSS STORES INC	1,109,820.90	11,199	0.15		0
MML EQUITY INDEX FUND	EQUITY	SCHLUMBERGER LTD	2,506,248.80	41,140	0.33		0
MML EQUITY INDEX FUND	EQUITY	ADVANCED MICRO DEVICES	787,787.67	25,503	0.10		0
MML EQUITY INDEX FUND	EQUITY	AUTOZONE INC	612,027.30	789	0.08		0
MML EQUITY INDEX FUND	EQUITY	AVERY DENNISON CORP	282,143.40	2,604	0.04		0
MML EQUITY INDEX FUND	EQUITY	BOEING CO/THE	5,904,284.40	15,876	0.79		0
MML EQUITY INDEX FUND	EQUITY	CORNING INC	850,977.10	24,107	0.11		0
MML EQUITY INDEX FUND	EQUITY	DOVER CORP	388,292.58	4,386	0.05		0
MML EQUITY INDEX FUND	EQUITY	EQUIFAX INC	464,568.06	3,558	0.06		0
MML EQUITY INDEX FUND	EQUITY	FEDEX CORP	1,740,911.70	7,230	0.23		0
MML EQUITY INDEX FUND	EQUITY	FISERV INC	987,324.30	11,985	0.13		0
MML EQUITY INDEX FUND	EQUITY	HALLIBURTON CO	1,060,629.57	26,169	0.14		0
MML EQUITY INDEX FUND	EQUITY	HERSHEY CO/THE	421,566.00	4,133	0.06		0
MML EQUITY INDEX FUND	EQUITY	KLA TENCOR CORP	468,883.10	4,610	0.06		0
MML EQUITY INDEX FUND	EQUITY	KOHL'S CORP	370,960.80	4,976	0.05		0
MML EQUITY INDEX FUND	EQUITY	PPG INDUSTRIES INC	784,972.09	7,193	0.10		0
MML EQUITY INDEX FUND	EQUITY	PEPSICO INC	4,699,848.40	42,038	0.63		0
MML EQUITY INDEX FUND	EQUITY	UNITED PARCEL SERVICE CL B	2,406,100.75	20,609	0.32		0
MML EQUITY INDEX FUND	EQUITY	SHERWIN WILLIAMS CO/THE	1,108,436.35	2,435	0.15		0
MML EQUITY INDEX FUND	EQUITY	NEWELL BRANDS INC	262,560.20	12,934	0.03		0
MML EQUITY INDEX FUND	EQUITY	SNAP ON INC	307,346.40	1,674	0.04		0
MML EQUITY INDEX FUND	EQUITY	ANADARKO PETROLEUM CORP	1,026,991.35	15,235	0.14		0
MML EQUITY INDEX FUND	EQUITY	DEERE + CO	1,431,742.92	9,524	0.19		0
MML EQUITY INDEX FUND	EQUITY	KIMCO REALTY CORP	210,254.40	12,560	0.03		0
MML EQUITY INDEX FUND	EQUITY	TIFFANY + CO	417,991.77	3,241	0.06		0
MML EQUITY INDEX FUND	EQUITY	VORNADO REALTY TRUST	373,249.00	5,113	0.05		0
MML EQUITY INDEX FUND	EQUITY	HASBRO INC	365,817.60	3,480	0.05		0
MML EQUITY INDEX FUND	EQUITY	HONEYWELL INTERNATIONAL INC	3,676,108.80	22,092	0.49		0
MML EQUITY INDEX FUND	EQUITY	PROCTER + GAMBLE CO/THE	6,154,775.27	73,949	0.82		0
MML EQUITY INDEX FUND	EQUITY	AES CORP	273,868.00	19,562	0.04		0
MML EQUITY INDEX FUND	EQUITY	AMGEN INC	3,985,772.12	19,228	0.53		0
MML EQUITY INDEX FUND	EQUITY	APPLE INC	30,785,292.50	136,375	4.09		0
MML EQUITY INDEX FUND	EQUITY	BEST BUY CO INC	575,677.44	7,254	0.08		0
MML EQUITY INDEX FUND	EQUITY	BOSTON SCIENTIFIC CORP	1,582,735.00	41,110	0.21		0
MML EQUITY INDEX FUND	EQUITY	CVS HEALTH CORP	2,382,145.92	30,261	0.32		0
MML EQUITY INDEX FUND	EQUITY	CAPITAL ONE FINANCIAL CORP	1,349,809.67	14,219	0.18		0
MML EQUITY INDEX FUND	EQUITY	NATIONAL OILWELL VARCO INC	486,760.92	11,299	0.06		0
MML EQUITY INDEX FUND	EQUITY	STARBUCKS CORP	2,278,886.12	40,093	0.30		0
MML EQUITY INDEX FUND	EQUITY	RAYMOND JAMES FINANCIAL INC	363,505.45	3,949	0.05		0
MML EQUITY INDEX FUND	EQUITY	LEGGETT + PLATT INC	170,036.57	3,883	0.02		0
MML EQUITY INDEX FUND	EQUITY	VERIZON COMMUNICATIONS INC	6,556,025.05	122,795	0.87		0
MML EQUITY INDEX FUND	EQUITY	KANSAS CITY SOUTHERN	343,804.80	3,035	0.05		0
MML EQUITY INDEX FUND	EQUITY	JUNIPER NETWORKS INC	309,500.19	10,327	0.04		0
MML EQUITY INDEX FUND	EQUITY	TARGET CORP	1,379,869.03	15,643	0.18		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	UNITED TECHNOLOGIES CORP	3,123,215.59	22,339	0.42		0
MML EQUITY INDEX FUND	EQUITY	WASTE MANAGEMENT INC	1,063,175.76	11,766	0.14		0
MML EQUITY INDEX FUND	EQUITY	WHIRLPOOL CORP	226,575.00	1,908	0.03		0
MML EQUITY INDEX FUND	EQUITY	AMERICAN EXPRESS CO	2,234,692.65	20,985	0.30		0
MML EQUITY INDEX FUND	EQUITY	COCA COLA CO/THE	5,254,389.64	113,756	0.70		0
MML EQUITY INDEX FUND	EQUITY	MARRIOTT INTERNATIONAL CL A	1,130,308.83	8,561	0.15		0
MML EQUITY INDEX FUND	EQUITY	NIKE INC CL B	3,224,866.80	38,065	0.43		0
MML EQUITY INDEX FUND	EQUITY	ANALOG DEVICES INC	1,024,364.34	11,079	0.14		0
MML EQUITY INDEX FUND	EQUITY	CARDINAL HEALTH INC	496,206.00	9,189	0.07		0
MML EQUITY INDEX FUND	EQUITY	HARLEY DAVIDSON INC	223,011.90	4,923	0.03		0
MML EQUITY INDEX FUND	EQUITY	INTERPUBLIC GROUP OF COS INC	260,786.61	11,403	0.03		0
MML EQUITY INDEX FUND	EQUITY	KROGER CO	689,557.68	23,688	0.09		0
MML EQUITY INDEX FUND	EQUITY	NEWFIELD EXPLORATION CO	170,327.64	5,908	0.02		0
MML EQUITY INDEX FUND	EQUITY	QUANTA SERVICES INC	147,739.88	4,426	0.02		0
MML EQUITY INDEX FUND	EQUITY	ILLUMINA INC	1,606,254.56	4,376	0.21		0
MML EQUITY INDEX FUND	EQUITY	FORD MOTOR CO	1,080,464.75	116,807	0.14		0
MML EQUITY INDEX FUND	EQUITY	XCEL ENERGY INC	710,510.50	15,050	0.09		0
MML EQUITY INDEX FUND	EQUITY	MOODY S CORP	825,633.60	4,938	0.11		0
MML EQUITY INDEX FUND	EQUITY	CONSTELLATION BRANDS INC A	1,071,415.78	4,969	0.14		0
MML EQUITY INDEX FUND	EQUITY	NASDAQ INC	296,610.60	3,457	0.04		0
MML EQUITY INDEX FUND	EQUITY	DAVITA INC	270,618.14	3,778	0.04		0
MML EQUITY INDEX FUND	EQUITY	EXELON CORP	1,256,534.80	28,780	0.17		0
MML EQUITY INDEX FUND	EQUITY	FLUOR CORP	241,637.90	4,159	0.03		0
MML EQUITY INDEX FUND	EQUITY	AETNA INC	1,972,513.40	9,724	0.26		0
MML EQUITY INDEX FUND	EQUITY	T ROWE PRICE GROUP INC	791,991.72	7,254	0.11		0
MML EQUITY INDEX FUND	EQUITY	JPMORGAN CHASE + CO	11,269,782.16	99,874	1.50		0
MML EQUITY INDEX FUND	EQUITY	GLOBAL PAYMENTS INC	601,200.60	4,719	0.08		0
MML EQUITY INDEX FUND	EQUITY	ALIGN TECHNOLOGY INC	850,121.06	2,173	0.11		0
MML EQUITY INDEX FUND	EQUITY	REGENCY CENTERS CORP	324,643.40	5,020	0.04		0
MML EQUITY INDEX FUND	EQUITY	US BANCORP	2,403,224.67	45,507	0.32		0
MML EQUITY INDEX FUND	EQUITY	RAYTHEON COMPANY	1,755,783.36	8,496	0.23		0
MML EQUITY INDEX FUND	EQUITY	ALLIANCE DATA SYSTEMS CORP	336,764.16	1,426	0.04		0
MML EQUITY INDEX FUND	EQUITY	ROCKWELL COLLINS INC	682,262.79	4,857	0.09		0
MML EQUITY INDEX FUND	EQUITY	ZIMMER BIOMET HOLDINGS INC	790,397.64	6,012	0.11		0
MML EQUITY INDEX FUND	EQUITY	AMERISOURCEBERGEN CORP	443,670.42	4,811	0.06		0
MML EQUITY INDEX FUND	EQUITY	CHEVRON CORP	6,962,378.64	56,938	0.93		0
MML EQUITY INDEX FUND	EQUITY	QUALCOMM INC	3,011,142.12	41,804	0.40		0
MML EQUITY INDEX FUND	EQUITY	ROCKWELL AUTOMATION INC	686,510.72	3,661	0.09		0
MML EQUITY INDEX FUND	EQUITY	SOUTHWEST AIRLINES CO	958,607.50	15,350	0.13		0
MML EQUITY INDEX FUND	EQUITY	SUNTRUST BANKS INC	918,295.71	13,749	0.12		0
MML EQUITY INDEX FUND	EQUITY	TJX COMPANIES INC	2,087,940.78	18,639	0.28		0
MML EQUITY INDEX FUND	EQUITY	VULCAN MATERIALS CO	434,680.80	3,909	0.06		0
MML EQUITY INDEX FUND	EQUITY	WEYERHAEUSER CO	731,786.79	22,677	0.10		0
MML EQUITY INDEX FUND	EQUITY	WILLIAMS COS INC	977,398.93	35,947	0.13		0
MML EQUITY INDEX FUND	EQUITY	XILINX INC	600,874.15	7,495	0.08		0
MML EQUITY INDEX FUND	EQUITY	VERISIGN INC	511,583.40	3,195	0.07		0
MML EQUITY INDEX FUND	EQUITY	HARTFORD FINANCIAL SVCS GRP	529,226.28	10,593	0.07		0
MML EQUITY INDEX FUND	EQUITY	ELECTRONIC ARTS INC	1,093,446.75	9,075	0.15		0
MML EQUITY INDEX FUND	EQUITY	AFLAC INC	1,077,761.79	22,897	0.14		0
MML EQUITY INDEX FUND	EQUITY	METLIFE INC	1,379,641.60	29,530	0.18		0
MML EQUITY INDEX FUND	EQUITY	MGM RESORTS INTERNATIONAL	424,232.00	15,200	0.06		0
MML EQUITY INDEX FUND	EQUITY	SCHWAB (CHARLES) CORP	1,756,276.95	35,733	0.23		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	ADOBE INC	3,932,091.70	14,566	0.52		0
MML EQUITY INDEX FUND	EQUITY	HORMEL FOODS CORP	314,727.20	7,988	0.04		0
MML EQUITY INDEX FUND	EQUITY	MCCORMICK + CO NON VTG SHRS	472,587.25	3,587	0.06		0
MML EQUITY INDEX FUND	EQUITY	UNITEDHEALTH GROUP INC	7,609,808.16	28,604	1.01		0
MML EQUITY INDEX FUND	EQUITY	MOLSON COORS BREWING CO B	346,245.00	5,630	0.05		0
MML EQUITY INDEX FUND	EQUITY	SVB FINANCIAL GROUP	487,070.61	1,567	0.06		0
MML EQUITY INDEX FUND	EQUITY	CF INDUSTRIES HOLDINGS INC	375,744.88	6,902	0.05		0
MML EQUITY INDEX FUND	EQUITY	AMERIPRISE FINANCIAL INC	621,500.94	4,209	0.08		0
MML EQUITY INDEX FUND	EQUITY	C.H. ROBINSON WORLDWIDE INC	403,234.56	4,118	0.05		0
MML EQUITY INDEX FUND	EQUITY	UNDER ARMOUR INC CLASS A	116,731.22	5,501	0.02		0
MML EQUITY INDEX FUND	EQUITY	AT+T INC	7,247,638.56	215,832	0.96		0
MML EQUITY INDEX FUND	EQUITY	VIACOM INC CLASS B	352,454.40	10,440	0.05		0
MML EQUITY INDEX FUND	EQUITY	CBS CORP CLASS B NON VOTING	580,245.00	10,100	0.08		0
MML EQUITY INDEX FUND	EQUITY	CHIPOTLE MEXICAN GRILL INC	328,617.96	723	0.04		0
MML EQUITY INDEX FUND	EQUITY	FIDELITY NATIONAL INFO SERV	1,067,795.30	9,790	0.14		0
MML EQUITY INDEX FUND	EQUITY	CA INC	407,990.15	9,241	0.05		0
MML EQUITY INDEX FUND	EQUITY	TRANSDIGM GROUP INC	536,856.60	1,442	0.07		0
MML EQUITY INDEX FUND	EQUITY	HESS CORP	536,205.78	7,491	0.07		0
MML EQUITY INDEX FUND	EQUITY	MASTERCARD INC A	6,036,960.59	27,119	0.80		0
MML EQUITY INDEX FUND	EQUITY	HANESBRANDS INC	196,445.37	10,659	0.03		0
MML EQUITY INDEX FUND	EQUITY	WESTERN UNION CO	249,476.34	13,089	0.03		0
MML EQUITY INDEX FUND	EQUITY	IPG PHOTONICS CORP	163,717.43	1,049	0.02		0
MML EQUITY INDEX FUND	EQUITY	TRAVELERS COS INC/THE	1,026,914.07	7,917	0.14		0
MML EQUITY INDEX FUND	EQUITY	UDR INC	319,316.14	7,898	0.04		0
MML EQUITY INDEX FUND	EQUITY	BROADRIDGE FINANCIAL SOLUTIO	460,109.65	3,487	0.06		0
MML EQUITY INDEX FUND	EQUITY	PEOPLE S UNITED FINANCIAL	176,216.16	10,293	0.02		0
MML EQUITY INDEX FUND	EQUITY	DELTA AIR LINES INC	1,083,387.22	18,734	0.14		0
MML EQUITY INDEX FUND	EQUITY	MACY S INC	314,688.53	9,061	0.04		0
MML EQUITY INDEX FUND	EQUITY	DISCOVER FINANCIAL SERVICES	779,331.30	10,194	0.10		0
MML EQUITY INDEX FUND	EQUITY	BANK OF NEW YORK MELLON CORP	1,393,250.76	27,324	0.19		0
MML EQUITY INDEX FUND	EQUITY	CME GROUP INC	1,724,057.09	10,129	0.23		0
MML EQUITY INDEX FUND	EQUITY	CONCHO RESOURCES INC	909,473.50	5,954	0.12		0
MML EQUITY INDEX FUND	EQUITY	HCP INC	365,426.88	13,884	0.05		0
MML EQUITY INDEX FUND	EQUITY	ULTA BEAUTY INC	477,064.92	1,691	0.06		0
MML EQUITY INDEX FUND	EQUITY	MSCI INC	467,120.53	2,633	0.06		0
MML EQUITY INDEX FUND	EQUITY	INVESCO LTD	277,969.12	12,149	0.04		0
MML EQUITY INDEX FUND	EQUITY	DISH NETWORK CORP A	242,166.72	6,772	0.03		0
MML EQUITY INDEX FUND	EQUITY	DOLLAR TREE INC	573,541.15	7,033	0.08		0
MML EQUITY INDEX FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	3,767,392.62	46,203	0.50		0
MML EQUITY INDEX FUND	EQUITY	VISA INC CLASS A SHARES	7,929,254.70	52,830	1.05		0
MML EQUITY INDEX FUND	EQUITY	NETAPP INC	662,211.90	7,710	0.09		0
MML EQUITY INDEX FUND	EQUITY	AMERICAN WATER WORKS CO INC	473,542.51	5,383	0.06		0
MML EQUITY INDEX FUND	EQUITY	ACTIVISION BLIZZARD INC	1,886,499.63	22,677	0.25		0
MML EQUITY INDEX FUND	EQUITY	DISCOVERY INC A	147,712.00	4,616	0.02		0
MML EQUITY INDEX FUND	EQUITY	DISCOVERY INC C	316,506.00	10,700	0.04		0
MML EQUITY INDEX FUND	EQUITY	EQT CORP	347,382.42	7,854	0.05		0
MML EQUITY INDEX FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	1,403,672.60	26,365	0.19		0
MML EQUITY INDEX FUND	EQUITY	INGERSOLL RAND PLC	750,268.20	7,334	0.10		0
MML EQUITY INDEX FUND	EQUITY	ACCENTURE PLC CL A	3,237,374.20	19,021	0.43		0
MML EQUITY INDEX FUND	EQUITY	VERISK ANALYTICS INC	590,815.55	4,901	0.08		0
MML EQUITY INDEX FUND	EQUITY	ADVANCE AUTO PARTS INC	368,642.70	2,190	0.05		0
MML EQUITY INDEX FUND	EQUITY	PRUDENTIAL FINANCIAL INC	1,258,698.36	12,423	0.17		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	CENTENE CORP	878,669.82	6,069	0.12		0
MML EQUITY INDEX FUND	EQUITY	3M CO	3,671,621.75	17,425	0.49		0
MML EQUITY INDEX FUND	EQUITY	NOBLE ENERGY INC	446,921.51	14,329	0.06		0
MML EQUITY INDEX FUND	EQUITY	YUM BRANDS INC	857,190.39	9,429	0.11		0
MML EQUITY INDEX FUND	EQUITY	NETFLIX INC	4,842,364.59	12,943	0.64		0
MML EQUITY INDEX FUND	EQUITY	JM SMUCKER CO/THE	344,769.60	3,360	0.05		0
MML EQUITY INDEX FUND	EQUITY	SKYWORKS SOLUTIONS INC	478,041.70	5,270	0.06		0
MML EQUITY INDEX FUND	EQUITY	CONOCOPHILLIPS	2,668,287.60	34,474	0.35		0
MML EQUITY INDEX FUND	EQUITY	PRINCIPAL FINANCIAL GROUP	461,572.02	7,878	0.06		0
MML EQUITY INDEX FUND	EQUITY	FOOT LOCKER INC	178,124.12	3,494	0.02		0
MML EQUITY INDEX FUND	EQUITY	AKAMAI TECHNOLOGIES INC	369,188.05	5,047	0.05		0
MML EQUITY INDEX FUND	EQUITY	BLACKROCK INC	1,719,411.84	3,648	0.23		0
MML EQUITY INDEX FUND	EQUITY	MARTIN MARIETTA MATERIALS	338,790.90	1,862	0.05		0
MML EQUITY INDEX FUND	EQUITY	AGILENT TECHNOLOGIES INC	667,520.02	9,463	0.09		0
MML EQUITY INDEX FUND	EQUITY	PACCAR INC	709,585.14	10,406	0.09		0
MML EQUITY INDEX FUND	EQUITY	MICROCHIP TECHNOLOGY INC	548,582.32	6,952	0.07		0
MML EQUITY INDEX FUND	EQUITY	FACEBOOK INC A	11,788,657.26	71,681	1.57		0
MML EQUITY INDEX FUND	EQUITY	DUKE ENERGY CORP	1,698,744.58	21,229	0.23		0
MML EQUITY INDEX FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	1,874,258.88	43,628	0.25		0
MML EQUITY INDEX FUND	EQUITY	EATON CORP PLC	1,121,765.82	12,934	0.15		0
MML EQUITY INDEX FUND	EQUITY	ABBVIE INC	4,256,100.00	45,000	0.57		0
MML EQUITY INDEX FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	351,184.45	6,115	0.05		0
MML EQUITY INDEX FUND	EQUITY	ZOETIS INC	1,310,315.16	14,311	0.17		0
MML EQUITY INDEX FUND	EQUITY	L BRANDS INC	205,797.60	6,792	0.03		0
MML EQUITY INDEX FUND	EQUITY	COTY INC CL A	165,628.72	13,187	0.02		0
MML EQUITY INDEX FUND	EQUITY	NEWS CORP CLASS A	149,535.03	11,337	0.02		0
MML EQUITY INDEX FUND	EQUITY	TWENTY FIRST CENTURY FOX A	1,454,762.00	31,400	0.19		0
MML EQUITY INDEX FUND	EQUITY	NEWS CORP CLASS B	48,919.20	3,597	0.01		0
MML EQUITY INDEX FUND	EQUITY	TWENTY FIRST CENTURY FOX B	663,336.14	14,477	0.09		0
MML EQUITY INDEX FUND	EQUITY	INTERCONTINENTAL EXCHANGE IN	1,273,429.56	17,004	0.17		0
MML EQUITY INDEX FUND	EQUITY	TWITTER INC	609,157.84	21,404	0.08		0
MML EQUITY INDEX FUND	EQUITY	ALLEGION PLC	254,411.13	2,809	0.03		0
MML EQUITY INDEX FUND	EQUITY	AMERICAN AIRLINES GROUP INC	499,225.07	12,079	0.07		0
MML EQUITY INDEX FUND	EQUITY	PERRIGO CO PLC	269,677.20	3,809	0.04		0
MML EQUITY INDEX FUND	EQUITY	PENTAIR PLC	208,123.35	4,801	0.03		0
MML EQUITY INDEX FUND	EQUITY	ARISTA NETWORKS INC	408,626.82	1,537	0.05		0
MML EQUITY INDEX FUND	EQUITY	SYNCHRONY FINANCIAL	629,991.60	20,270	0.08		0
MML EQUITY INDEX FUND	EQUITY	CITIZENS FINANCIAL GROUP	543,297.02	14,086	0.07		0
MML EQUITY INDEX FUND	EQUITY	ANTHEM INC	2,117,584.35	7,727	0.28		0
MML EQUITY INDEX FUND	EQUITY	CROWN CASTLE INTL CORP	1,375,704.81	12,357	0.18		0
MML EQUITY INDEX FUND	EQUITY	WALGREENS BOOTS ALLIANCE INC	1,828,404.90	25,081	0.24		0
MML EQUITY INDEX FUND	EQUITY	QORVO INC	287,645.49	3,741	0.04		0
MML EQUITY INDEX FUND	EQUITY	IRON MOUNTAIN INC	296,975.56	8,603	0.04		0
MML EQUITY INDEX FUND	EQUITY	EQUINIX INC	1,026,815.08	2,372	0.14		0
MML EQUITY INDEX FUND	EQUITY	MEDTRONIC PLC	3,950,244.09	40,157	0.53		0
MML EQUITY INDEX FUND	EQUITY	EVERSOURCE ENERGY	575,877.12	9,373	0.08		0
MML EQUITY INDEX FUND	EQUITY	MYLAN NV	558,003.60	15,246	0.07		0
MML EQUITY INDEX FUND	EQUITY	ALLERGAN PLC	1,806,321.84	9,483	0.24		0
MML EQUITY INDEX FUND	EQUITY	MONSTER BEVERAGE CORP	689,976.92	11,839	0.09		0
MML EQUITY INDEX FUND	EQUITY	WESTROCK CO	405,342.40	7,585	0.05		0
MML EQUITY INDEX FUND	EQUITY	WEC ENERGY GROUP INC	623,071.08	9,333	0.08		0
MML EQUITY INDEX FUND	EQUITY	KRAFT HEINZ CO/THE	1,019,479.89	18,499	0.14		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	PAYPAL HOLDINGS INC	3,090,562.56	35,184	0.41		0
MML EQUITY INDEX FUND	EQUITY	NIELSEN HOLDINGS PLC	293,168.34	10,599	0.04		0
MML EQUITY INDEX FUND	EQUITY	WELLTOWER INC	707,455.68	10,999	0.09		0
MML EQUITY INDEX FUND	EQUITY	ALPHABET INC CL C	10,921,443.97	9,151	1.45		0
MML EQUITY INDEX FUND	EQUITY	ALPHABET INC CL A	10,723,698.72	8,884	1.43		0
MML EQUITY INDEX FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	713,480.95	43,745	0.09		0
MML EQUITY INDEX FUND	EQUITY	HP INC	1,211,834.25	47,025	0.16		0
MML EQUITY INDEX FUND	EQUITY	WILLIS TOWERS WATSON PLC	549,666.00	3,900	0.07		0
MML EQUITY INDEX FUND	EQUITY	CHUBB LTD	1,841,158.28	13,777	0.24		0
MML EQUITY INDEX FUND	EQUITY	DENTSPLY SIRONA INC	253,876.98	6,727	0.03		0
MML EQUITY INDEX FUND	EQUITY	CENTERPOINT ENERGY INC	404,408.90	14,626	0.05		0
MML EQUITY INDEX FUND	EQUITY	CIMAREX ENERGY CO	262,369.62	2,823	0.03		0
MML EQUITY INDEX FUND	EQUITY	CARMAX INC	393,286.89	5,267	0.05		0
MML EQUITY INDEX FUND	EQUITY	WYNN RESORTS LTD	369,363.42	2,907	0.05		0
MML EQUITY INDEX FUND	EQUITY	COMCAST CORP CLASS A	4,809,563.25	135,825	0.64		0
MML EQUITY INDEX FUND	EQUITY	NEKTAR THERAPEUTICS	312,480.96	5,126	0.04		0
MML EQUITY INDEX FUND	EQUITY	ALTRIA GROUP INC	3,376,093.49	55,979	0.45		0
MML EQUITY INDEX FUND	EQUITY	CARNIVAL CORP	765,750.16	12,008	0.10		0
MML EQUITY INDEX FUND	EQUITY	INTUITIVE SURGICAL INC	1,940,694.00	3,381	0.26		0
MML EQUITY INDEX FUND	EQUITY	LKQ CORP	300,421.62	9,486	0.04		0
MML EQUITY INDEX FUND	EQUITY	BIOGEN INC	2,114,913.66	5,986	0.28		0
MML EQUITY INDEX FUND	EQUITY	NRG ENERGY INC	341,312.40	9,126	0.05		0
MML EQUITY INDEX FUND	EQUITY	ASSURANT INC	169,157.65	1,567	0.02		0
MML EQUITY INDEX FUND	EQUITY	SALESFORCE.COM INC	3,579,924.33	22,511	0.48		0
MML EQUITY INDEX FUND	EQUITY	WELLCARE HEALTH PLANS INC	477,530.10	1,490	0.06		0
MML EQUITY INDEX FUND	EQUITY	REGIONS FINANCIAL CORP	599,879.85	32,691	0.08		0
MML EQUITY INDEX FUND	EQUITY	EXTRA SPACE STORAGE INC	322,907.28	3,727	0.04		0
MML EQUITY INDEX FUND	EQUITY	DIGITAL REALTY TRUST INC	685,003.20	6,090	0.09		0
MML EQUITY INDEX FUND	EQUITY	UNDER ARMOUR INC CLASS C	108,411.66	5,571	0.01		0
MML EQUITY INDEX FUND	EQUITY	S+P GLOBAL INC	1,461,517.20	7,480	0.19		0
MML EQUITY INDEX FUND	EQUITY	CHARTER COMMUNICATIONS INC A	1,729,445.16	5,307	0.23		0
MML EQUITY INDEX FUND	EQUITY	FORTIVE CORP W/D	773,461.20	9,186	0.10		0
MML EQUITY INDEX FUND	EQUITY	IHS MARKIT LTD	568,414.64	10,534	0.08		0
MML EQUITY INDEX FUND	EQUITY	JOHNSON CONTROLS INTERNATION	958,825.00	27,395	0.13		0
MML EQUITY INDEX FUND	EQUITY	ARCONIC INC	276,643.69	12,569	0.04		0
MML EQUITY INDEX FUND	EQUITY	ENVISION HEALTHCARE CORP	163,804.86	3,582	0.02		0
MML EQUITY INDEX FUND	EQUITY	L3 TECHNOLOGIES INC	493,491.02	2,321	0.07		0
MML EQUITY INDEX FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	716,276.26	8,867	0.10		0
MML EQUITY INDEX FUND	EQUITY	TECHNIPFMC PLC	401,187.50	12,838	0.05		0
MML EQUITY INDEX FUND	EQUITY	SBA COMMUNICATIONS CORP	547,105.78	3,406	0.07		0
MML EQUITY INDEX FUND	EQUITY	DXC TECHNOLOGY CO	777,618.80	8,315	0.10		0
MML EQUITY INDEX FUND	EQUITY	XEROX CORP	180,334.32	6,684	0.02		0
MML EQUITY INDEX FUND	EQUITY	BAKER HUGHES A GE CO	416,650.28	12,316	0.06		0
MML EQUITY INDEX FUND	EQUITY	BRIGHTHOUSE FINANCIAL INC	156,742.32	3,543	0.02		0
MML EQUITY INDEX FUND	EQUITY	ANDEAVOR	631,192.00	4,112	0.08		0
MML EQUITY INDEX FUND	EQUITY	DOWDUPONT INC	4,414,431.33	68,643	0.59		0
MML EQUITY INDEX FUND	EQUITY	MERCK + CO. INC.	5,606,530.08	79,032	0.75		0
MML EQUITY INDEX FUND	EQUITY	DOLLAR GENERAL CORP	862,814.20	7,894	0.11		0
MML EQUITY INDEX FUND	EQUITY	BERKSHIRE HATHAWAY INC CL B	12,401,893.53	57,923	1.65		0
MML EQUITY INDEX FUND	EQUITY	STANLEY BLACK + DECKER INC	668,352.16	4,564	0.09		0
MML EQUITY INDEX FUND	EQUITY	LYONDELLBASELL INDU CL A	974,767.59	9,509	0.13		0
MML EQUITY INDEX FUND	EQUITY	E TRADE FINANCIAL CORP	408,956.34	7,806	0.05		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY INDEX FUND	EQUITY	NEXTERA ENERGY INC	2,350,925.20	14,027	0.31	0	
MML EQUITY INDEX FUND	EQUITY	CBOE GLOBAL MARKETS INC	319,258.92	3,327	0.04	0	
MML EQUITY INDEX FUND	EQUITY	GARMIN LTD	252,460.20	3,604	0.03	0	
MML EQUITY INDEX FUND	EQUITY	SEAGATE TECHNOLOGY	367,862.15	7,769	0.05	0	
MML EQUITY INDEX FUND	EQUITY	UNITED CONTINENTAL HOLDINGS	607,032.96	6,816	0.08	0	
MML EQUITY INDEX FUND	EQUITY	GENERAL MOTORS CO	1,312,961.65	38,995	0.17	0	
MML EQUITY INDEX FUND	EQUITY	FLEETCOR TECHNOLOGIES INC	604,003.84	2,651	0.08	0	
MML EQUITY INDEX FUND	EQUITY	MOTOROLA SOLUTIONS INC	624,151.44	4,796	0.08	0	
MML EQUITY INDEX FUND	EQUITY	O REILLY AUTOMOTIVE INC	831,484.08	2,394	0.11	0	
MML EQUITY INDEX FUND	EQUITY	KINDER MORGAN INC	1,004,705.91	56,667	0.13	0	
MML EQUITY INDEX FUND	EQUITY	HCA HEALTHCARE INC	1,116,159.76	8,023	0.15	0	
MML EQUITY INDEX FUND	EQUITY	TE CONNECTIVITY LTD	910,603.08	10,356	0.12	0	
MML EQUITY INDEX FUND	EQUITY	TAPESTRY INC	427,948.51	8,513	0.06	0	
MML EQUITY INDEX FUND	FUTURE	S+P500 EMINI FUT DEC18	-	7,250	0.02	0	12/21/2018
MML EQUITY INDEX FUND	EQUITY	IQVIA HOLDINGS INC	621,065.38	4,787	0.08	0	
MML EQUITY INDEX FUND	EQUITY	APTIV PLC	657,020.90	7,831	0.09	0	
MML EQUITY INDEX FUND	EQUITY	BOOKING HOLDINGS INC	2,799,424.00	1,411	0.37	0	
MML EQUITY INDEX FUND	EQUITY	BROADCOM INC	3,165,792.63	12,831	0.42	0	
MML EQUITY INDEX FUND	EQUITY	JEFFERIES FINANCIAL GROUP IN	187,450.56	8,536	0.02	0	
MML EQUITY INDEX FUND	EQUITY	EVERGY INC	440,568.24	8,022	0.06	0	
MML EQUITY INDEX FUND	CASH EQUIVALENT	TREASURY BILL	1,078,386.85	1,085,000	0.14	0	1/10/2019
MML EQUITY INDEX FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	19,661,471.46	19,661,471	2.62	1.1	10/1/2018
MML EQUITY INDEX FUND	EQUITY	HUNTINGTON INGALLS INDUSTRIE	327,014.16	1,277	0.04	0	
MML EQUITY INDEX FUND	EQUITY	CITIGROUP INC	5,365,721.56	74,794	0.71	0	
MML EQUITY INDEX FUND	EQUITY	MOSAIC CO/THE	347,276.16	10,692	0.05	0	
MML EQUITY INDEX FUND	EQUITY	PROLOGIS INC	1,271,604.82	18,758	0.17	0	
MML EQUITY INDEX FUND	EQUITY	MARATHON PETROLEUM CORP	1,071,917.88	13,404	0.14	0	
MML EQUITY INDEX FUND	EQUITY	HOLLYFRONTIER CORP	336,778.20	4,818	0.04	0	
MML EQUITY INDEX FUND	EQUITY	PVH CORP	329,087.60	2,279	0.04	0	
MML EQUITY INDEX FUND	EQUITY	RALPH LAUREN CORP	226,544.85	1,647	0.03	0	
MML EQUITY INDEX FUND	EQUITY	FORTUNE BRANDS HOME + SECURI	225,985.76	4,316	0.03	0	
MML EQUITY INDEX FUND	EQUITY	CBRE GROUP INC A	414,760.50	9,405	0.06	0	
MML EQUITY INDEX FUND	EQUITY	XYLEM INC	425,068.14	5,322	0.06	0	
MML EQUITY INDEX FUND	EQUITY	TRIPADVISOR INC	151,831.11	2,973	0.02	0	
MML EQUITY INDEX FUND	EQUITY	MICHAEL KORS HOLDINGS LTD	303,926.48	4,433	0.04	0	
MML EQUITY INDEX FUND	EQUITY	EXPEDIA GROUP INC	466,466.00	3,575	0.06	0	
MML EQUITY INDEX FUND	EQUITY	AMERICAN TOWER CORP	1,907,789.00	13,130	0.25	0	
MML EQUITY INDEX FUND	EQUITY	AON PLC	1,112,136.96	7,232	0.15	0	
MML EQUITY INDEX FUND	EQUITY	EXPRESS SCRIPTS HOLDING CO	1,588,472.19	16,719	0.21	0	
MML EQUITY INDEX FUND	EQUITY	PHILLIPS 66	1,430,529.52	12,691	0.19	0	
MML EQUITY ROTATION FUND	EQUITY	MASTERCARD INC A	1,393,538.60	6,260	4.22	0	
MML EQUITY ROTATION FUND	EQUITY	KAISER ALUMINUM CORP	174,496.00	1,600	0.53	0	
MML EQUITY ROTATION FUND	EQUITY	WESTERN UNION CO	162,010.00	8,500	0.49	0	
MML EQUITY ROTATION FUND	EQUITY	INTUIT INC	309,264.00	1,360	0.94	0	
MML EQUITY ROTATION FUND	EQUITY	MAGNA INTERNATIONAL INC	278,409.00	5,300	0.84	0	
MML EQUITY ROTATION FUND	EQUITY	COMERICA INC	757,680.00	8,400	2.29	0	
MML EQUITY ROTATION FUND	EQUITY	AMAZON.COM INC	1,582,370.00	790	4.79	0	
MML EQUITY ROTATION FUND	EQUITY	APACHE CORP	19,068.00	400	0.06	0	
MML EQUITY ROTATION FUND	EQUITY	ARCHER DANIELS MIDLAND CO	256,377.00	5,100	0.78	0	
MML EQUITY ROTATION FUND	EQUITY	DEVON ENERGY CORP	639,040.00	16,000	1.93	0	
MML EQUITY ROTATION FUND	EQUITY	EASTMAN CHEMICAL CO	28,716.00	300	0.09	0	
MML EQUITY ROTATION FUND	EQUITY	LOCKHEED MARTIN CORP	633,106.80	1,830	1.92	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY ROTATION FUND	EQUITY	NORFOLK SOUTHERN CORP	451,250.00	2,500	1.37	0	
MML EQUITY ROTATION FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	221,859.00	2,700	0.67	0	
MML EQUITY ROTATION FUND	EQUITY	UNION PACIFIC CORP	32,566.00	200	0.10	0	
MML EQUITY ROTATION FUND	EQUITY	NEUROCRINE BIOSCIENCES INC	309,834.00	2,520	0.94	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML EQUITY ROTATION FUND	EQUITY	3M CO	84,284.00	400	0.25		0
MML EQUITY ROTATION FUND	EQUITY	SKYWORKS SOLUTIONS INC	181,420.00	2,000	0.55		0
MML EQUITY ROTATION FUND	EQUITY	BIOGEN INC	240,250.80	680	0.73		0
MML EQUITY ROTATION FUND	EQUITY	WELLCARE HEALTH PLANS INC	176,269.50	550	0.53		0
MML EQUITY ROTATION FUND	EQUITY	HUNTSMAN CORP	127,981.00	4,700	0.39		0
MML EQUITY ROTATION FUND	EQUITY	VIACOM INC CLASS B	270,080.00	8,000	0.82		0
MML EQUITY ROTATION FUND	EQUITY	FIDELITY NATIONAL INFO SERV	109,070.00	1,000	0.33		0
MML EQUITY ROTATION FUND	EQUITY	EATON CORP PLC	294,882.00	3,400	0.89		0
MML EQUITY ROTATION FUND	EQUITY	NEWS CORP CLASS A	31,656.00	2,400	0.10		0
MML EQUITY ROTATION FUND	EQUITY	HD SUPPLY HOLDINGS INC	166,881.00	3,900	0.50		0
MML EQUITY ROTATION FUND	EQUITY	LEIDOS HOLDINGS INC	145,236.00	2,100	0.44		0
MML EQUITY ROTATION FUND	EQUITY	VEEVA SYSTEMS INC CLASS A	239,514.00	2,200	0.72		0
MML EQUITY ROTATION FUND	EQUITY	Q2 HOLDINGS INC	121,100.00	2,000	0.37		0
MML EQUITY ROTATION FUND	EQUITY	ALIBABA GROUP HOLDING SP ADR	247,140.00	1,500	0.75		0
MML EQUITY ROTATION FUND	EQUITY	HORIZON PHARMA PLC	326,986.00	16,700	0.99		0
MML EQUITY ROTATION FUND	EQUITY	ZAYO GROUP HOLDINGS INC	135,408.00	3,900	0.41		0
MML EQUITY ROTATION FUND	EQUITY	ALPHABET INC CL C	59,673.50	50	0.18		0
MML EQUITY ROTATION FUND	EQUITY	ALPHABET INC CL A	1,195,009.20	990	3.62		0
MML EQUITY ROTATION FUND	EQUITY	SQUARE INC A	108,911.00	1,100	0.33		0
MML EQUITY ROTATION FUND	EQUITY	S+P GLOBAL INC	302,854.50	1,550	0.92		0
MML EQUITY ROTATION FUND	EQUITY	US FOODS HOLDING CORP	508,530.00	16,500	1.54		0
MML EQUITY ROTATION FUND	EQUITY	ALCOA CORP	125,240.00	3,100	0.38		0
MML EQUITY ROTATION FUND	EQUITY	OKTA INC	197,008.00	2,800	0.60		0
MML EQUITY ROTATION FUND	EQUITY	ANDEAVOR	445,150.00	2,900	1.35		0
MML EQUITY ROTATION FUND	EQUITY	WORLDPAY INC CLASS A	719,017.00	7,100	2.18		0
MML EQUITY ROTATION FUND	EQUITY	BROADCOM INC	123,365.00	500	0.37		0
MML EQUITY ROTATION FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,435,337.04	1,435,337	4.34	1.1	10/1/2018
MML EQUITY ROTATION FUND	EQUITY	WORKDAY INC CLASS A	153,279.00	1,050	0.46		0
MML EQUITY ROTATION FUND	EQUITY	ASML HOLDING NV NY REG SHS	152,296.20	810	0.46		0
MML FOCUSED EQUITY FUND	EQUITY	CANADIAN NATL RAILWAY CO	2,997,437.00	33,405	4.74		0
MML FOCUSED EQUITY FUND	CASH	CANADIAN DOLLAR	10,339.09	13,354	0.02		0
MML FOCUSED EQUITY FUND	EQUITY	LOCKHEED MARTIN CORP	1,581,037.20	4,570	2.50		0
MML FOCUSED EQUITY FUND	EQUITY	UNION PACIFIC CORP	2,815,493.53	17,291	4.45		0
MML FOCUSED EQUITY FUND	EQUITY	DIAGEO PLC	2,504,220.41	70,712	3.96		0
MML FOCUSED EQUITY FUND	EQUITY	GENERAL DYNAMICS CORP	1,437,953.28	7,024	2.27		0
MML FOCUSED EQUITY FUND	EQUITY	MICROSOFT CORP	2,512,480.16	21,968	3.97		0
MML FOCUSED EQUITY FUND	EQUITY	PRAXAIR INC	1,867,521.87	11,619	2.95		0
MML FOCUSED EQUITY FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	2,642,358.38	19,402	4.18		0
MML FOCUSED EQUITY FUND	EQUITY	BRISTOL MYERS SQUIBB CO	2,528,766.72	40,734	4.00		0
MML FOCUSED EQUITY FUND	EQUITY	MARSH + MCLENNAN COS	1,869,637.44	22,602	2.96		0
MML FOCUSED EQUITY FUND	EQUITY	COCA COLA CO/THE	2,213,655.75	47,925	3.50		0
MML FOCUSED EQUITY FUND	EQUITY	NIKE INC CL B	3,153,278.40	37,220	4.99		0
MML FOCUSED EQUITY FUND	EQUITY	PEPSICO INC	2,053,877.80	18,371	3.25		0
MML FOCUSED EQUITY FUND	EQUITY	UNITED PARCEL SERVICE CL B	1,889,715.50	16,186	2.99		0
MML FOCUSED EQUITY FUND	EQUITY	PUBLIC STORAGE	2,540,941.26	12,602	4.02		0
MML FOCUSED EQUITY FUND	EQUITY	COLGATE PALMOLIVE CO	2,204,864.35	32,933	3.49		0
MML FOCUSED EQUITY FUND	EQUITY	TJX COMPANIES INC	2,993,286.42	26,721	4.74		0
MML FOCUSED EQUITY FUND	EQUITY	UNITEDHEALTH GROUP INC	1,276,459.92	4,798	2.02		0
MML FOCUSED EQUITY FUND	EQUITY	BLACKROCK INC	1,239,597.90	2,630	1.96		0
MML FOCUSED EQUITY FUND	EQUITY	VISA INC CLASS A SHARES	2,044,676.07	13,623	3.23		0
MML FOCUSED EQUITY FUND	EQUITY	ACCENTURE PLC CL A	2,199,154.20	12,921	3.48		0
MML FOCUSED EQUITY FUND	EQUITY	AMERICAN TOWER CORP	2,227,013.10	15,327	3.52		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML FOCUSED EQUITY FUND	EQUITY	MEDTRONIC PLC	2,850,467.49	28,977	4.51	0	
MML FOCUSED EQUITY FUND	EQUITY	CHUBB LTD	2,677,076.48	20,032	4.24	0	
MML FOCUSED EQUITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,174,547.69	1,174,548	1.86	1.1	10/1/2018
MML FOCUSED EQUITY FUND	EQUITY	COSTCO WHOLESALE CORP	2,524,490.24	10,748	3.99	0	
MML FOCUSED EQUITY FUND	EQUITY	MCDONALD S CORP	2,529,759.38	15,122	4.00	0	
MML FOCUSED EQUITY FUND	EQUITY	AMERICAN EXPRESS CO	2,648,086.83	24,867	4.19	0	
MML FOREIGN FUND	EQUITY	CRH PLC	4,609,825.63	141,012	1.33	0	
MML FOREIGN FUND	EQUITY	MICHELIN (CGDE)	3,275,289.71	27,433	0.94	0	
MML FOREIGN FUND	EQUITY	MERCK KGAA	5,259,548.51	50,900	1.51	0	
MML FOREIGN FUND	EQUITY	E.ON SE	4,954,927.28	486,062	1.43	0	
MML FOREIGN FUND	EQUITY	BAYER AG REG	5,388,900.10	60,663	1.55	0	
MML FOREIGN FUND	EQUITY	HEIDELBERGCEMENT AG	3,597,397.97	46,022	1.04	0	
MML FOREIGN FUND	EQUITY	AKZO NOBEL	3,008,958.87	32,182	0.87	0	
MML FOREIGN FUND	EQUITY	SANOFI	6,617,727.00	74,190	1.91	0	
MML FOREIGN FUND	EQUITY	MORPHOSYS AG	1,538,058.31	14,383	0.44	0	
MML FOREIGN FUND	EQUITY	TRAVIS PERKINS PLC	2,068,559.48	149,165	0.60	0	
MML FOREIGN FUND	EQUITY	VEOLIA ENVIRONNEMENT	3,433,420.72	172,122	0.99	0	
MML FOREIGN FUND	EQUITY	NETEASE INC ADR	1,666,225.00	7,300	0.48	0	
MML FOREIGN FUND	CASH	SOUTH KOREAN WON	0.19	208	0.00	0	
MML FOREIGN FUND	CASH	THAILAND BAHT	44,087.20	1,425,780	0.01	0	
MML FOREIGN FUND	EQUITY	RYOHIN KEIKAKU CO LTD	2,198,579.46	7,400	0.63	0	
MML FOREIGN FUND	CASH	HONG KONG DOLLAR	118,864.18	930,510	0.03	0	
MML FOREIGN FUND	CASH	SWEDISH KRONA	14.29	127	0.00	0	
MML FOREIGN FUND	EQUITY	BAE SYSTEMS PLC	3,514,854.16	428,534	1.01	0	
MML FOREIGN FUND	EQUITY	BP PLC	9,832,364.92	1,281,535	2.83	0	
MML FOREIGN FUND	EQUITY	SIEMENS AG REG	5,503,969.06	42,985	1.58	0	
MML FOREIGN FUND	EQUITY	IHI CORP	2,519,553.08	66,500	0.73	0	
MML FOREIGN FUND	EQUITY	PANASONIC CORP	4,024,305.44	345,400	1.16	0	
MML FOREIGN FUND	EQUITY	mitsui FUDOSAN CO LTD	4,102,321.38	173,300	1.18	0	
MML FOREIGN FUND	EQUITY	OMRON CORP	2,851,468.05	67,500	0.82	0	
MML FOREIGN FUND	EQUITY	SOFTBANK GROUP CORP	5,826,873.02	57,700	1.68	0	
MML FOREIGN FUND	EQUITY	ALAMOS GOLD INC CLASS A	1,411,628.10	306,210	0.41	0	
MML FOREIGN FUND	EQUITY	LIVANOVA PLC	3,028,587.10	24,430	0.87	0	
MML FOREIGN FUND	EQUITY	JOHNSON MATTHEY PLC	4,473,104.69	96,470	1.29	0	
MML FOREIGN FUND	EQUITY	ING GROEP NV	4,731,763.11	364,978	1.36	0	
MML FOREIGN FUND	EQUITY	UNICREDIT SPA	2,409,191.71	160,689	0.69	0	
MML FOREIGN FUND	EQUITY	QIAGEN N.V.	3,087,030.54	81,562	0.89	0	
MML FOREIGN FUND	EQUITY	BANK OF IRELAND GROUP PLC	4,381,389.73	572,268	1.26	0	
MML FOREIGN FUND	EQUITY	WHEATON PRECIOUS METALS CORP	1,683,211.40	96,200	0.48	0	
MML FOREIGN FUND	EQUITY	LANDIS GYR GROUP AG	1,704,708.43	25,523	0.49	0	
MML FOREIGN FUND	EQUITY	CK ASSET HOLDINGS LTD	3,374,853.80	452,254	0.97	0	
MML FOREIGN FUND	EQUITY	INNOGY SE TEND	799,156.50	18,831	0.23	0	
MML FOREIGN FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	9,823,211.52	9,823,212	2.83	1.1	10/1/2018
MML FOREIGN FUND	EQUITY	YARA INTERNATIONAL ASA	3,816,652.78	77,872	1.10	0	
MML FOREIGN FUND	EQUITY	SES	5,396,342.27	246,017	1.55	0	
MML FOREIGN FUND	EQUITY	SINGAPORE TELECOMMUNICATIONS	4,946,097.26	2,089,100	1.42	0	
MML FOREIGN FUND	EQUITY	LANXESS AG	4,374,569.28	59,730	1.26	0	
MML FOREIGN FUND	EQUITY	COBHAM PLC	2,584,553.18	1,698,528	0.74	0	
MML FOREIGN FUND	EQUITY	ROYAL DUTCH SHELL PLC B SHS	9,467,109.33	270,523	2.73	0	
MML FOREIGN FUND	EQUITY	ROYAL DUTCH SHELL PLC A SHS	82,284.46	2,397	0.02	0	
MML FOREIGN FUND	EQUITY	BAIDU INC SPON ADR	4,589,607.60	20,070	1.32	0	
MML FOREIGN FUND	EQUITY	SEVEN + I HOLDINGS CO LTD	3,768,097.36	84,600	1.08	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML FOREIGN FUND	EQUITY	HANA FINANCIAL GROUP	3,186,901.14	79,353	0.92	0	
MML FOREIGN FUND	EQUITY	INPEX CORP	3,785,083.95	304,100	1.09	0	
MML FOREIGN FUND	EQUITY	TOTAL SA	3,322,034.85	51,453	0.96	0	
MML FOREIGN FUND	EQUITY	SBM OFFSHORE NV	2,881,589.49	159,233	0.83	0	
MML FOREIGN FUND	EQUITY	SHIRE PLC	5,407,228.88	89,624	1.56	0	
MML FOREIGN FUND	EQUITY	HUSKY ENERGY INC	3,641,723.38	207,400	1.05	0	
MML FOREIGN FUND	EQUITY	KB FINANCIAL GROUP INC ADR	3,090,692.48	64,016	0.89	0	
MML FOREIGN FUND	EQUITY	SINOPHARM GROUP CO H	2,787,739.85	568,800	0.80	0	
MML FOREIGN FUND	EQUITY	NXP SEMICONDUCTORS NV	2,479,500.00	29,000	0.71	0	
MML FOREIGN FUND	EQUITY	AIA GROUP LTD	4,335,129.91	485,200	1.25	0	
MML FOREIGN FUND	EQUITY	TELEFONICA DEUTSCHLAND HOLDI	3,332,942.02	788,417	0.96	0	
MML FOREIGN FUND	EQUITY	SUNTORY BEVERAGE + FOOD LTD	5,456,062.60	129,100	1.57	0	
MML FOREIGN FUND	EQUITY	VODAFONE GROUP PLC SP ADR	5,142,531.10	236,983	1.48	0	
MML FOREIGN FUND	EQUITY	NN GROUP NV	2,832,759.16	63,590	0.82	0	
MML FOREIGN FUND	EQUITY	UBS GROUP AG REG	6,879,114.34	436,187	1.98	0	
MML FOREIGN FUND	EQUITY	CK HUTCHISON HOLDINGS LTD	4,881,658.97	425,754	1.41	0	
MML FOREIGN FUND	EQUITY	SAMSUNG ELECTRONICS CO LTD	9,854,895.69	235,300	2.84	0	
MML FOREIGN FUND	EQUITY	TAIWAN SEMICONDUCTOR MANUFAC	5,475,494.65	641,275	1.58	0	
MML FOREIGN FUND	CASH	US DOLLAR	0.08	0	0.00	0	
MML FOREIGN FUND	CASH	EURO CURRENCY	177,454.57	152,840	0.05	0	
MML FOREIGN FUND	EQUITY	TEVA PHARMACEUTICAL SP ADR	6,366,534.72	295,568	1.83	0	
MML FOREIGN FUND	EQUITY	VESTAS WIND SYSTEMS A/S	4,523,447.77	66,972	1.30	0	
MML FOREIGN FUND	EQUITY	SUMITOMO RUBBER INDUSTRIES	1,826,644.25	121,700	0.53	0	
MML FOREIGN FUND	EQUITY	GLAXOSMITHKLINE PLC	1,762,452.05	87,969	0.51	0	
MML FOREIGN FUND	EQUITY	STANDARD CHARTERED PLC	6,049,755.08	730,507	1.74	0	
MML FOREIGN FUND	EQUITY	ROCHE HOLDING AG GENUSSCHEIN	6,669,433.57	27,562	1.92	0	
MML FOREIGN FUND	EQUITY	NOVARTIS AG REG	5,160,545.50	59,896	1.49	0	
MML FOREIGN FUND	EQUITY	AXA SA	4,876,948.89	181,650	1.40	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML FUNDAMENTAL GROWTH FUND	EQUITY	ATLASSIAN CORP PLC CLASS A	699,322.36	7,274	0.61		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	S+P GLOBAL INC	983,397.87	5,033	0.86		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	FORTIVE CORP W/D	1,007,032.00	11,960	0.88		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	IHS MARKIT LTD	1,076,286.16	19,946	0.94		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BAKER HUGHES A GE CO	702,885.91	20,777	0.61		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	WORLDPAY INC CLASS A	1,476,516.60	14,580	1.29		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BOOKING HOLDINGS INC	1,704,256.00	859	1.49		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	APERGY CORP	370,652.04	8,509	0.32		0
MML FUNDAMENTAL GROWTH FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	146,667.63	146,668	0.13	1.1	10/1/2018
MML FUNDAMENTAL GROWTH FUND	EQUITY	RIO TINTO PLC SPON ADR	957,594.38	18,769	0.84		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	GARTNER INC	667,126.50	4,209	0.58		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	INTUIT INC	1,311,188.40	5,766	1.14		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AMAZON.COM INC	6,589,870.00	3,290	5.75		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	ROPER TECHNOLOGIES INC	1,418,549.69	4,789	1.24		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	PIONEER NATURAL RESOURCES CO	865,550.11	4,969	0.76		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	1,592,377.92	6,524	1.39		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	CERNER CORP	394,704.48	6,128	0.34		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	FACTSET RESEARCH SYSTEMS INC	754,797.54	3,374	0.66		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	GILEAD SCIENCES INC	539,929.53	6,993	0.47		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	PROCTER + GAMBLE CO/THE	444,531.43	5,341	0.39		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AMGEN INC	1,615,618.26	7,794	1.41		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	APPLE INC	5,181,410.22	22,953	4.52		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	CISCO SYSTEMS INC	1,262,564.80	25,952	1.10		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	HOME DEPOT INC	3,148,887.15	15,201	2.75		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	MICROSOFT CORP	8,393,843.04	73,392	7.33		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BAXTER INTERNATIONAL INC	1,216,480.20	15,780	1.06		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BANK OF AMERICA CORP	920,683.92	31,252	0.80		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	EMERSON ELECTRIC CO	806,923.46	10,537	0.70		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BRISTOL MYERS SQUIBB CO	1,728,493.44	27,843	1.51		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	LOWE S COS INC	544,935.72	4,746	0.48		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	TEXAS INSTRUMENTS INC	1,388,332.60	12,940	1.21		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	BP PLC SPONS ADR	1,262,955.60	27,396	1.10		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	MCDONALD S CORP	1,374,120.06	8,214	1.20		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AMERICAN EXPRESS CO	1,713,317.61	16,089	1.50		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	NIKE INC CL B	1,879,089.60	22,180	1.64		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	KROGER CO	285,278.00	9,800	0.25		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	CATERPILLAR INC	1,474,120.83	9,667	1.29		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	ROSS STORES INC	1,289,390.10	13,011	1.13		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	CHECK POINT SOFTWARE TECH	1,124,572.19	9,557	0.98		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	FISERV INC	771,818.22	9,369	0.67		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	MAXIM INTEGRATED PRODUCTS	675,495.81	11,979	0.59		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	QUALCOMM INC	731,032.47	10,149	0.64		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	TJX COMPANIES INC	2,158,065.30	19,265	1.88		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	VERISIGN INC	1,191,132.68	7,439	1.04		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	ELECTRONIC ARTS INC	670,647.34	5,566	0.59		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	ADOBE INC	1,697,985.50	6,290	1.48		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AUTODESK INC	345,627.54	2,214	0.30		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	DANAHER CORP	1,437,028.50	13,225	1.25		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	NATIONAL OILWELL VARCO INC	870,862.20	20,215	0.76		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AETNA INC	1,294,588.70	6,382	1.13		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	GLOBAL PAYMENTS INC	1,500,135.00	11,775	1.31		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	RAYTHEON COMPANY	1,772,729.48	8,578	1.55		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML FUNDAMENTAL GROWTH FUND	EQUITY	CHEVRON CORP	1,039,746.84	8,503	0.91		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	SALESFORCE.COM INC	2,113,031.61	13,287	1.84		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	DOMINO S PIZZA INC	1,159,743.20	3,934	1.01		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	LAS VEGAS SANDS CORP	364,938.83	6,151	0.32		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	CF INDUSTRIES HOLDINGS INC	838,158.24	15,396	0.73		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	TD AMERITRADE HOLDING CORP	1,155,761.91	21,877	1.01		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	MASTERCARD INC A	2,896,823.93	13,013	2.53		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	EXPERIAN PLC	524,695.59	20,430	0.46		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	VMWARE INC CLASS A	624,552.12	4,002	0.55		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	VISA INC CLASS A SHARES	3,440,062.80	22,920	3.00		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	NETAPP INC	1,295,478.87	15,083	1.13		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	SS+C TECHNOLOGIES HOLDINGS	1,043,682.95	18,365	0.91		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	FLEETCOR TECHNOLOGIES INC	1,078,594.56	4,734	0.94		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	O REILLY AUTOMOTIVE INC	1,415,676.32	4,076	1.24		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	YANDEX NV A	354,093.74	10,766	0.31		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	MICHAEL KORS HOLDINGS LTD	478,068.88	6,973	0.42		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	AMERICAN TOWER CORP	863,808.50	5,945	0.75		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	GUIDEWIRE SOFTWARE INC	448,080.36	4,436	0.39		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	FACEBOOK INC A	1,292,491.14	7,859	1.13		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	SERVICENOW INC	779,389.92	3,984	0.68		0
MML FUNDAMENTAL GROWTH FUND	EQUITY	WORKDAY INC CLASS A	783,620.64	5,368	0.68		0
MML FUNDAMENTAL VALUE FUND	EQUITY	ASTRAZENECA PLC SPONS ADR	2,534,854.20	64,060	1.16		0
MML FUNDAMENTAL VALUE FUND	EQUITY	UNILEVER N V NY SHARES	1,826,484.00	32,880	0.84		0
MML FUNDAMENTAL VALUE FUND	EQUITY	UNITEDHEALTH GROUP INC	2,471,511.60	9,290	1.13		0
MML FUNDAMENTAL VALUE FUND	EQUITY	BLACKROCK INC	2,248,244.10	4,770	1.03		0
MML FUNDAMENTAL VALUE FUND	EQUITY	VERIZON COMMUNICATIONS INC	5,244,499.70	98,230	2.40		0
MML FUNDAMENTAL VALUE FUND	EQUITY	KONINKLIJKE PHILIPS NVR NY	2,593,159.80	56,980	1.19		0
MML FUNDAMENTAL VALUE FUND	EQUITY	JPMORGAN CHASE + CO	9,430,038.80	83,570	4.32		0
MML FUNDAMENTAL VALUE FUND	EQUITY	ROCHE HOLDING AG GENUSSCHEIN	2,928,191.56	12,101	1.34		0
MML FUNDAMENTAL VALUE FUND	EQUITY	ZIMMER BIOMET HOLDINGS INC	2,626,770.60	19,980	1.20		0
MML FUNDAMENTAL VALUE FUND	EQUITY	CHEVRON CORP	6,286,414.80	51,410	2.88		0
MML FUNDAMENTAL VALUE FUND	EQUITY	COMCAST CORP CLASS A	5,395,067.60	152,360	2.47		0
MML FUNDAMENTAL VALUE FUND	EQUITY	VIACOM INC CLASS B	1,527,302.40	45,240	0.70		0
MML FUNDAMENTAL VALUE FUND	EQUITY	CONCHO RESOURCES INC	2,373,735.00	15,540	1.09		0
MML FUNDAMENTAL VALUE FUND	EQUITY	INVESCO LTD	1,944,800.00	85,000	0.89		0
MML FUNDAMENTAL VALUE FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	3,652,176.60	44,790	1.67		0
MML FUNDAMENTAL VALUE FUND	EQUITY	NETAPP INC	2,551,791.90	29,710	1.17		0
MML FUNDAMENTAL VALUE FUND	EQUITY	INTACT FINANCIAL CORP	2,062,938.10	24,810	0.95		0
MML FUNDAMENTAL VALUE FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	2,091,267.20	39,280	0.96		0
MML FUNDAMENTAL VALUE FUND	EQUITY	INGERSOLL RAND PLC	2,277,198.00	22,260	1.04		0
MML FUNDAMENTAL VALUE FUND	EQUITY	MERCK + CO. INC.	4,559,313.80	64,270	2.09		0
MML FUNDAMENTAL VALUE FUND	EQUITY	NEXTERA ENERGY INC	1,619,016.00	9,660	0.74		0
MML FUNDAMENTAL VALUE FUND	EQUITY	CITIGROUP INC	6,017,551.20	83,880	2.76		0
MML FUNDAMENTAL VALUE FUND	EQUITY	FORTUNE BRANDS HOME + SECURI	2,405,418.40	45,940	1.10		0
MML FUNDAMENTAL VALUE FUND	EQUITY	EATON CORP PLC	2,915,862.60	33,620	1.34		0
MML FUNDAMENTAL VALUE FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	1,894,615.70	32,990	0.87		0
MML FUNDAMENTAL VALUE FUND	EQUITY	BRIXMOR PROPERTY GROUP INC	1,297,666.10	74,110	0.59		0
MML FUNDAMENTAL VALUE FUND	EQUITY	ANTHEM INC	2,203,362.00	8,040	1.01		0
MML FUNDAMENTAL VALUE FUND	EQUITY	CROWN CASTLE INTL CORP	2,677,486.50	24,050	1.23		0
MML FUNDAMENTAL VALUE FUND	EQUITY	MEDTRONIC PLC	3,936,669.03	40,019	1.80		0
MML FUNDAMENTAL VALUE FUND	EQUITY	EVERSOURCE ENERGY	2,995,200.00	48,750	1.37		0
MML FUNDAMENTAL VALUE FUND	EQUITY	ALLERGAN PLC	2,685,768.00	14,100	1.23		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML FUNDAMENTAL VALUE FUND	EQUITY	KRAFT HEINZ CO/THE	1,719,211.56	31,196	0.79	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	CHUBB LTD	3,460,607.80	25,895	1.59	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	US FOODS HOLDING CORP	2,061,858.00	66,900	0.94	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	PARK HOTELS + RESORTS INC	2,687,629.80	81,890	1.23	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	2,605,155.00	32,250	1.19	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	DOWDUPONT INC	4,054,102.40	63,040	1.86	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	QURATE RETAIL INC	2,327,385.90	104,790	1.07	0	
MML FUNDAMENTAL VALUE FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,714,901.77	1,714,902	0.79	1.1	10/1/2018
MML FUNDAMENTAL VALUE FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	2,395,449.60	55,760	1.10	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	SKECHERS USA INC CL A	977,550.00	35,000	0.45	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	CANADIAN NATURAL RESOURCES	2,755,524.20	84,370	1.26	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	M + T BANK CORP	2,780,726.00	16,900	1.27	0	
MML FUNDAMENTAL VALUE FUND	CASH	CANADIAN DOLLAR	8,604.96	11,115	0.00	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	EOG RESOURCES INC	4,241,702.50	33,250	1.94	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	EDISON INTERNATIONAL	2,045,289.60	30,220	0.94	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	DOMINION ENERGY INC	1,154,700.40	16,430	0.53	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	FMC CORP	2,287,603.20	26,240	1.05	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	INTERNATIONAL PAPER CO	2,505,667.00	50,980	1.15	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	LOCKHEED MARTIN CORP	2,290,255.20	6,620	1.05	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	2,961,406.80	36,040	1.36	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	PIONEER NATURAL RESOURCES CO	2,203,503.50	12,650	1.01	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	UNION PACIFIC CORP	2,821,843.90	17,330	1.29	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	COGNIZANT TECH SOLUTIONS A	1,842,342.00	23,880	0.84	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	BRITISH AMERICAN TOBACCO PLC	1,450,541.20	31,070	0.66	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	CISCO SYSTEMS INC	5,760,646.50	118,410	2.64	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	EXXON MOBIL CORP	2,775,903.00	32,650	1.27	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	HOME DEPOT INC	2,293,150.50	11,070	1.05	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	NOKIA CORP SPON ADR	2,194,558.20	393,290	1.01	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	WELLS FARGO + CO	4,972,176.00	94,600	2.28	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	4,063,909.60	29,840	1.86	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	BANK OF AMERICA CORP	5,714,650.80	193,980	2.62	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	BRISTOL MYERS SQUIBB CO	2,978,598.40	47,980	1.36	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	MARSH + MCLENNAN COS	2,550,257.60	30,830	1.17	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	INTEL CORP	4,643,878.00	98,200	2.13	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	ELI LILLY + CO	3,238,615.80	30,180	1.48	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	UNITED TECHNOLOGIES CORP	3,500,842.40	25,040	1.60	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	ANALOG DEVICES INC	2,251,401.00	24,350	1.03	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	NEWELL BRANDS INC	1,063,314.00	52,380	0.49	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	CATERPILLAR INC	2,769,218.40	18,160	1.27	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	GOLDMAN SACHS GROUP INC	2,401,610.40	10,710	1.10	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	HALLIBURTON CO	2,408,697.90	59,430	1.10	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	MAXIM INTEGRATED PRODUCTS	2,297,892.50	40,750	1.05	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	QUALCOMM INC	3,444,474.60	47,820	1.58	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	TJX COMPANIES INC	2,260,563.60	20,180	1.04	0	
MML FUNDAMENTAL VALUE FUND	EQUITY	METLIFE INC	2,054,745.60	43,980	0.94	0	
MML GLOBAL FUND	EQUITY	AUTOZONE INC	1,173,634.10	1,513	0.49	0	
MML GLOBAL FUND	EQUITY	PPG INDUSTRIES INC	2,100,425.11	19,247	0.88	0	
MML GLOBAL FUND	EQUITY	MICROCHIP TECHNOLOGY INC	913,462.16	11,576	0.38	0	
MML GLOBAL FUND	EQUITY	NATIONAL OILWELL VARCO INC	747,868.80	17,360	0.31	0	
MML GLOBAL FUND	EQUITY	LVMH MOET HENNESSY LOUIS VUI	5,587,606.91	15,826	2.34	0	
MML GLOBAL FUND	EQUITY	KANSAS CITY SOUTHERN	3,991,420.80	35,235	1.67	0	
MML GLOBAL FUND	EQUITY	DEUTSCHE BOERSE AG	1,001,941.51	7,478	0.42	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML GLOBAL FUND	EQUITY	ROCHE HOLDING AG GENUSSCHEIN	3,614,686.85	14,938		1.51	0
MML GLOBAL FUND	EQUITY	ADECCO GROUP AG REG	1,122,074.66	21,392		0.47	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654		9.00	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786		5.03	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919		2.34	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809		1.59	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443		4.79	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812		2.73	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186		5.15	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213		5.97	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731		2.72	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470		2.32	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416		2.55	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867		6.03	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565		2.57	0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874		4.99	0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559		35.05	0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512		12.56	0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490		27.62	0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870		24.77	0
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24		0.00	0
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1		0.00	0
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293		100.00	0
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139		100.00	0
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900		1.41	0
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700		12.80	1.1 10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000		0.69	0
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100		0.98	0
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000		0.82	0
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000		0.88	0
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500		0.97	0
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400		0.75	0
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)		0.00	0
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100		1.06	0
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800		0.89	0
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400		6.07	0
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600		4.82	0
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800		1.32	0
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600		0.49	0
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400		0.90	0
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)		0.23	0
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425		0.76	0
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600		0.28	0
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300		0.86	0
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400		2.11	0
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600		1.08	0
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600		0.95	0
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900		5.31	0
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000		3.95	0
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200		10.80	0
MML ASSET MOMENTUM FUND	EQUITY	REGIONS FINANCIAL CORP	278,920.00	15,200		0.91	0
MML ASSET MOMENTUM FUND	EQUITY	SVB FINANCIAL GROUP	341,913.00	1,100		1.11	0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML GLOBAL FUND	EQUITY	FRANKLIN RESOURCES INC	1,006,814.28	33,108	0.42		0
MML GLOBAL FUND	EQUITY	HONEYWELL INTERNATIONAL INC	6,216,537.60	37,359	2.60		0
MML GLOBAL FUND	EQUITY	CISCO SYSTEMS INC	2,187,644.55	44,967	0.92		0
MML GLOBAL FUND	EQUITY	WALT DISNEY CO/THE	4,808,105.04	41,116	2.01		0
MML GLOBAL FUND	EQUITY	OMNICOM GROUP	1,135,593.90	16,695	0.48		0
MML GLOBAL FUND	EQUITY	ORACLE CORP	3,803,220.28	73,763	1.59		0
MML GLOBAL FUND	EQUITY	PRAXAIR INC	993,472.13	6,181	0.42		0
MML GLOBAL FUND	EQUITY	NOW INC	167,949.40	10,148	0.07		0
MML GLOBAL FUND	EQUITY	UBS GROUP AG REG	2,824,384.84	179,087	1.18		0
MML GLOBAL FUND	EQUITY	MEDTRONIC PLC	6,961,743.27	70,771	2.91		0
MML GLOBAL FUND	EQUITY	AENA SME SA	2,689,862.59	15,551	1.13		0
MML GLOBAL FUND	EQUITY	PAYPAL HOLDINGS INC	1,455,069.60	16,565	0.61		0
MML GLOBAL FUND	EQUITY	COMPASS GROUP PLC	2,520,295.72	113,349	1.05		0
MML GLOBAL FUND	EQUITY	ESSITY AKTIEBOLAG B	4,627,196.14	184,238	1.94		0
MML GLOBAL FUND	EQUITY	LINDE AG TENDER	3,239,704.27	13,699	1.36		0
MML GLOBAL FUND	EQUITY	APTIV PLC	1,234,840.20	14,718	0.52		0
MML GLOBAL FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,686,877.39	1,686,877	0.71	1.1	10/1/2018
MML GLOBAL FUND	EQUITY	WATERS CORP	1,955,560.60	10,045	0.82		0
MML GLOBAL FUND	CASH	US DOLLAR	0.48	0	0.00		0
MML GLOBAL FUND	EQUITY	ABBOTT LABORATORIES	3,722,433.12	50,742	1.56		0
MML GLOBAL FUND	EQUITY	JOHNSON + JOHNSON	957,932.61	6,933	0.40		0
MML GLOBAL FUND	EQUITY	STATE STREET CORP	4,232,984.50	50,525	1.77		0
MML GLOBAL FUND	EQUITY	UNITED TECHNOLOGIES CORP	2,708,539.13	19,373	1.13		0
MML GLOBAL FUND	EQUITY	AMERICAN EXPRESS CO	3,589,351.94	33,706	1.50		0
MML GLOBAL FUND	EQUITY	HARLEY DAVIDSON INC	902,058.90	19,913	0.38		0
MML GLOBAL FUND	EQUITY	UNITED PARCEL SERVICE CL B	4,099,676.25	35,115	1.72		0
MML GLOBAL FUND	EQUITY	GRUPO FINANCIERO BANORTE O	864,300.82	119,475	0.36		0
MML GLOBAL FUND	CASH	EURO CURRENCY	110.86	95	0.00		0
MML GLOBAL FUND	EQUITY	COLGATE PALMOLIVE CO	2,700,763.00	40,340	1.13		0
MML GLOBAL FUND	EQUITY	GOLDMAN SACHS GROUP INC	2,152,928.24	9,601	0.90		0
MML GLOBAL FUND	EQUITY	SCHLUMBERGER LTD	1,540,301.28	25,284	0.64		0
MML GLOBAL FUND	EQUITY	CHECK POINT SOFTWARE TECH	3,180,620.10	27,030	1.33		0
MML GROWTH & INCOME FUND	EQUITY	ARAMARK	1,131,167.88	26,294	0.76		0
MML GROWTH & INCOME FUND	EQUITY	MEDTRONIC PLC	3,557,255.94	36,162	2.40		0
MML GROWTH & INCOME FUND	EQUITY	ALPHABET INC CL C	1,948,936.51	1,633	1.32		0
MML GROWTH & INCOME FUND	EQUITY	ALPHABET INC CL A	4,969,548.36	4,117	3.36		0
MML GROWTH & INCOME FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	1,040,741.10	63,810	0.70		0
MML GROWTH & INCOME FUND	EQUITY	CHUBB LTD	1,552,763.16	11,619	1.05		0
MML GROWTH & INCOME FUND	EQUITY	FORTIVE CORP W/D	1,153,203.20	13,696	0.78		0
MML GROWTH & INCOME FUND	EQUITY	DXC TECHNOLOGY CO	2,303,304.08	24,629	1.56		0
MML GROWTH & INCOME FUND	EQUITY	GARRETT MOTION INC	9,146.40	494	0.01		0
MML GROWTH & INCOME FUND	EQUITY	ELANCO ANIMAL HEALTH INC	63,988.26	1,834	0.04		0
MML GROWTH & INCOME FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,002,620.33	1,002,620	0.68	1.1	10/1/2018
MML GROWTH & INCOME FUND	EQUITY	HONEYWELL INTERNATIONAL WI	2,852,309.70	17,334	1.93		0
MML GROWTH & INCOME FUND	EQUITY	ENTERPRISE PRODUCTS PARTNERS	2,253,696.12	78,444	1.52		0
MML GROWTH & INCOME FUND	EQUITY	ESTEE LAUDER COMPANIES CL A	862,183.56	5,933	0.58		0
MML GROWTH & INCOME FUND	EQUITY	CANADIAN NATL RAILWAY CO	2,546,368.80	28,356	1.72		0
MML GROWTH & INCOME FUND	EQUITY	MCKESSON CORP	1,311,643.20	9,888	0.89		0
MML GROWTH & INCOME FUND	EQUITY	EOG RESOURCES INC	3,140,135.55	24,615	2.12		0
MML GROWTH & INCOME FUND	EQUITY	AMERICAN ELECTRIC POWER	758,628.64	10,703	0.51		0
MML GROWTH & INCOME FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	3,676,088.88	15,061	2.48		0
MML GROWTH & INCOME FUND	EQUITY	TRACTOR SUPPLY COMPANY	1,996,542.72	21,969	1.35		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML GROWTH & INCOME FUND	EQUITY	AMETEK INC	1,550,514.64	19,597	1.05		0
MML GROWTH & INCOME FUND	EQUITY	COGNIZANT TECH SOLUTIONS A	2,749,317.40	35,636	1.86		0
MML GROWTH & INCOME FUND	EQUITY	DIAGEO PLC	1,228,949.21	34,702	0.83		0
MML GROWTH & INCOME FUND	EQUITY	PERNOD RICARD SA	1,857,840.62	11,325	1.26		0
MML GROWTH & INCOME FUND	EQUITY	APPLE INC	2,238,889.32	9,918	1.51		0
MML GROWTH & INCOME FUND	EQUITY	CISCO SYSTEMS INC	1,516,809.70	31,178	1.03		0
MML GROWTH & INCOME FUND	EQUITY	WALT DISNEY CO/THE	847,113.36	7,244	0.57		0
MML GROWTH & INCOME FUND	EQUITY	MICROSOFT CORP	1,635,605.37	14,301	1.11		0
MML GROWTH & INCOME FUND	EQUITY	MORGAN STANLEY	1,768,868.31	37,983	1.20		0
MML GROWTH & INCOME FUND	EQUITY	KIMBERLY CLARK CORP	1,034,919.48	9,107	0.70		0
MML GROWTH & INCOME FUND	EQUITY	BANK OF AMERICA CORP	4,362,436.80	148,080	2.95		0
MML GROWTH & INCOME FUND	CASH	US DOLLAR	0.27	0	0.00		0
MML GROWTH & INCOME FUND	EQUITY	ABBOTT LABORATORIES	1,551,197.20	21,145	1.05		0
MML GROWTH & INCOME FUND	EQUITY	TEXAS INSTRUMENTS INC	2,335,810.59	21,771	1.58		0
MML GROWTH & INCOME FUND	EQUITY	COSTCO WHOLESALE CORP	1,674,694.40	7,130	1.13		0
MML GROWTH & INCOME FUND	EQUITY	JOHNSON + JOHNSON	4,261,439.14	30,842	2.88		0
MML GROWTH & INCOME FUND	EQUITY	ELI LILLY + CO	1,594,626.60	14,860	1.08		0
MML GROWTH & INCOME FUND	EQUITY	UNITED TECHNOLOGIES CORP	2,233,185.13	15,973	1.51		0
MML GROWTH & INCOME FUND	EQUITY	NIKE INC CL B	1,768,191.12	20,871	1.20		0
MML GROWTH & INCOME FUND	EQUITY	ANALOG DEVICES INC	1,215,941.46	13,151	0.82		0
MML GROWTH & INCOME FUND	EQUITY	SHERWIN WILLIAMS CO/THE	2,114,905.66	4,646	1.43		0
MML GROWTH & INCOME FUND	EQUITY	NEWELL BRANDS INC	1,378,573.00	67,910	0.93		0
MML GROWTH & INCOME FUND	CASH	EURO CURRENCY	55.53	48	0.00		0
MML GROWTH & INCOME FUND	EQUITY	COLGATE PALMOLIVE CO	1,551,298.45	23,171	1.05		0
MML GROWTH & INCOME FUND	EQUITY	GOLDMAN SACHS GROUP INC	2,239,933.36	9,989	1.51		0
MML GROWTH & INCOME FUND	EQUITY	ROSS STORES INC	2,021,243.60	20,396	1.37		0
MML GROWTH & INCOME FUND	EQUITY	SCHLUMBERGER LTD	2,557,543.44	41,982	1.73		0
MML GROWTH & INCOME FUND	EQUITY	PPG INDUSTRIES INC	1,383,550.14	12,678	0.94		0
MML GROWTH & INCOME FUND	EQUITY	ELECTRONIC ARTS INC	1,122,002.88	9,312	0.76		0
MML GROWTH & INCOME FUND	EQUITY	ADOBE INC	1,937,701.10	7,178	1.31		0
MML GROWTH & INCOME FUND	EQUITY	AMDOCS LTD	1,608,130.54	24,373	1.09		0
MML GROWTH & INCOME FUND	EQUITY	DANAHER CORP	3,498,634.68	32,198	2.36		0
MML GROWTH & INCOME FUND	EQUITY	STARBUCKS CORP	2,100,863.24	36,961	1.42		0
MML GROWTH & INCOME FUND	EQUITY	LVMH MOET HENNESSY LOUIS VUI	1,649,166.68	4,671	1.11		0
MML GROWTH & INCOME FUND	EQUITY	NASDAQ INC	1,880,221.20	21,914	1.27		0
MML GROWTH & INCOME FUND	EQUITY	FLUOR CORP	911,763.30	15,693	0.62		0
MML GROWTH & INCOME FUND	EQUITY	JPMORGAN CHASE + CO	5,381,678.12	47,693	3.64		0
MML GROWTH & INCOME FUND	EQUITY	US BANCORP	1,598,611.51	30,271	1.08		0
MML GROWTH & INCOME FUND	EQUITY	COMCAST CORP CLASS A	2,886,623.20	81,520	1.95		0
MML GROWTH & INCOME FUND	EQUITY	CROWN HOLDINGS INC	1,974,528.00	41,136	1.33		0
MML GROWTH & INCOME FUND	EQUITY	BIOGEN INC	1,625,932.62	4,602	1.10		0
MML GROWTH & INCOME FUND	EQUITY	SALESFORCE.COM INC	956,247.39	6,013	0.65		0
MML GROWTH & INCOME FUND	EQUITY	TD AMERITRADE HOLDING CORP	686,578.68	12,996	0.46		0
MML GROWTH & INCOME FUND	EQUITY	FIDELITY NATIONAL INFO SERV	2,932,892.30	26,890	1.98		0
MML GROWTH & INCOME FUND	EQUITY	MASTERCARD INC A	3,250,773.83	14,603	2.20		0
MML GROWTH & INCOME FUND	EQUITY	DANONE	1,935,801.77	25,005	1.31		0
MML GROWTH & INCOME FUND	EQUITY	BLACKSTONE GROUP LP/THE	1,359,113.28	35,691	0.92		0
MML GROWTH & INCOME FUND	EQUITY	DOLLAR TREE INC	768,282.55	9,421	0.52		0
MML GROWTH & INCOME FUND	EQUITY	VISA INC CLASS A SHARES	4,842,053.49	32,261	3.27		0
MML GROWTH & INCOME FUND	EQUITY	ACCENTURE PLC CL A	2,685,245.40	15,777	1.81		0
MML GROWTH & INCOME FUND	EQUITY	TE CONNECTIVITY LTD	1,174,832.73	13,361	0.79		0
MML GROWTH & INCOME FUND	EQUITY	AMERICAN TOWER CORP	3,762,688.80	25,896	2.54		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML GROWTH & INCOME FUND	EQUITY	FACEBOOK INC A	2,123,178.60	12,910	1.43		0
MML GROWTH & INCOME FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	2,525,317.68	58,783	1.71		0
MML GROWTH & INCOME FUND	EQUITY	ZOETIS INC	1,265,542.32	13,822	0.86		0
MML GROWTH & INCOME FUND	EQUITY	COTY INC CL A	711,222.56	56,626	0.48		0
MML GROWTH ALLOCATION FUND	EQUITY	OPPENHEIMER DISCOVERY MID CAP	26,550,438.93	314,467	1.61		0
MML GROWTH ALLOCATION FUND	EQUITY	MML SMALL/MID CAP VALUE	25,067,201.60	1,928,246	1.52		0
MML GROWTH ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	140,654,609.34	14,164,613	8.55		0
MML GROWTH ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	68,152,239.51	6,381,296	4.14		0
MML GROWTH ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	34,034,386.49	14,300,162	2.07		0
MML GROWTH ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	87,556,859.88	8,989,411	5.32		0
MML GROWTH ALLOCATION FUND	EQUITY	MML SER INVT FD	79,969,026.51	2,464,377	4.86		0
MML GROWTH ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	24,595,644.32	791,111	1.50		0
MML GROWTH ALLOCATION FUND	EQUITY	MML SMALL CAP GROWTH EQUITY FD	17,886,514.81	1,107,702	1.09		0
MML GROWTH ALLOCATION FUND	EQUITY	MML MID CAP GROWTH FD	76,209,007.58	4,745,268	4.63		0
MML GROWTH ALLOCATION FUND	EQUITY	MML MID CAP VALUE FD	74,671,657.04	6,788,332	4.54		0
MML GROWTH ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	70,555,583.43	4,143,017	4.29		0
MML GROWTH ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	81,617,367.75	7,121,934	4.96		0
MML GROWTH ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	66,736,372.93	6,741,048	4.06		0
MML GROWTH ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	124,330,335.20	10,297,782	7.56		0
MML GROWTH ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	38,553,908.38	853,340	2.34		0
MML GROWTH ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	82,816,031.81	8,407,719	5.04		0
MML GROWTH ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	33,926,709.75	1,970,192	2.06		0
MML GROWTH ALLOCATION FUND	EQUITY	MML FOREIGN FD	70,670,373.05	6,610,886	4.30		0
MML GROWTH ALLOCATION FUND	EQUITY	MML GLOBAL FD	77,755,948.54	6,668,606	4.73		0
MML GROWTH ALLOCATION FUND	EQUITY	MML LARGE CAP GROWTH FD	22,996,393.66	2,094,389	1.40		0
MML GROWTH ALLOCATION FUND	EQUITY	MML SHORT DURATION BOND FUND	45,344,879.88	4,665,111	2.76		0
MML GROWTH ALLOCATION FUND	EQUITY	MML HIGH YIELD FUND	13,361,320.08	1,345,551	0.81		0
MML GROWTH ALLOCATION FUND	EQUITY	MML TOTAL RETURN BOND FUND	77,604,031.96	7,752,651	4.72		0
MML GROWTH ALLOCATION FUND	EQUITY	MML FUNDAMENTAL VALUE FUND	76,775,580.19	5,387,760	4.67		0
MML GROWTH ALLOCATION FUND	EQUITY	MML STRG EMERGING MARKETS FUND	50,412,990.69	4,574,682	3.07		0
MML GROWTH ALLOCATION FUND	EQUITY	MML FUNDAMENTAL GROWTH FUND	35,658,338.07	3,235,784	2.17		0
MML GROWTH ALLOCATION FUND	EQUITY	MML FOCUSED EQUITY FUND	20,192,122.68	3,475,408	1.23		0
MML HIGH YIELD FUND	FIXED INCOME	HUGHES SATELLITE SYSTEMS	263,160.00	272,000	0.19	6.625	8/1/2026
MML HIGH YIELD FUND	FIXED INCOME	TEMPO ACQUISITION LLC/FI	684,640.00	704,000	0.50	6.75	6/1/2025
MML HIGH YIELD FUND	FIXED INCOME	WYNN LAS VEGAS LLC/CORP	456,945.00	492,000	0.34	5.25	5/15/2027
MML HIGH YIELD FUND	FIXED INCOME	SUNCOKE ENRGY PART LP/FI	1,043,390.00	1,013,000	0.76	7.5	6/15/2025
MML HIGH YIELD FUND	FIXED INCOME	CONSOLIDATED ENERGY FIN	680,381.25	655,000	0.50	6.875	6/15/2025
MML HIGH YIELD FUND	EQUITY	APPVION HLDG CORP	22,425.64	2,106	0.02		0
MML HIGH YIELD FUND	FIXED INCOME	CB144A APPCION ESC	-	2,157,000	0.00		9
MML HIGH YIELD FUND	FIXED INCOME	WILLIAM LYON HOMES INC	187,210.00	194,000	0.14		6
MML HIGH YIELD FUND	FIXED INCOME	INTELSAT JACKSON HLDG	710,733.00	703,000	0.52		8.5
MML HIGH YIELD FUND	FIXED INCOME	CHENIERE ENERGY PARTNERS	730,220.00	725,000	0.54	5.625	10/1/2026
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML HIGH YIELD FUND	FIXED INCOME	CENTURYLINK ESCROW LLC	1,237,819.57	1,246,859	0.91	0	1/31/2025
MML HIGH YIELD FUND	FIXED INCOME	FERL PRT LP/FERL PRT FIN	426,550.00	449,000	0.31	8.625	6/15/2020
MML HIGH YIELD FUND	FIXED INCOME	ASSUREDPARTNERS INC	508,860.00	514,000	0.37	7	8/15/2025
MML HIGH YIELD FUND	FIXED INCOME	UNITED RENTALS NORTH AM	342,187.50	365,000	0.25	4.875	1/15/2028
MML HIGH YIELD FUND	FIXED INCOME	VFH PARENT LLC/ORCHESTRA	1,525,002.50	1,477,000	1.12	6.75	6/15/2022
MML HIGH YIELD FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	1,020,731.40	1,086,000	0.75	5	2/1/2028
MML HIGH YIELD FUND	FIXED INCOME	MPT OPER PARTNERSP/FINL	519,461.25	539,000	0.38	5	10/15/2027
MML HIGH YIELD FUND	FIXED INCOME	UNITED RENTALS NORTH AM	241,530.00	249,000	0.18	4.625	10/15/2025
MML HIGH YIELD FUND	FIXED INCOME	GOLDEN NUGGET INC	253,683.76	242,000	0.19	8.75	10/1/2025
MML HIGH YIELD FUND	EQUITY	PINNACLE AGRICULTURE ENTERPRIS	709,611.70	1,144,535	0.52	0	
MML HIGH YIELD FUND	FIXED INCOME	AVANTOR INC	1,442,402.50	1,397,000	1.06	9	10/1/2025
MML HIGH YIELD FUND	FIXED INCOME	AVANTOR INC	661,780.00	652,000	0.49	6	10/1/2024
MML HIGH YIELD FUND	FIXED INCOME	PILGRIM S PRIDE CORP	828,765.00	877,000	0.61	5.875	9/30/2027
MML HIGH YIELD FUND	FIXED INCOME	WEATHERFORD BERMUDA	312,620.00	319,000	0.23	9.875	2/15/2024
MML HIGH YIELD FUND	FIXED INCOME	JONAH NRG LLC/FINANCE	753,525.00	985,000	0.55	7.25	10/15/2025
MML HIGH YIELD FUND	FIXED INCOME	ENERGY TRANSFER EQUITY	1,355,475.00	1,364,000	0.99	4.25	3/15/2023
MML HIGH YIELD FUND	FIXED INCOME	NORTHWEST ACQ/DOMINION	903,890.00	884,000	0.66	7.125	11/1/2022
MML HIGH YIELD FUND	FIXED INCOME	SIMMONS FOODS INC	370,098.75	483,000	0.27	5.75	11/1/2024
MML HIGH YIELD FUND	FIXED INCOME	PBF HOLDING CO LLC	971,250.00	925,000	0.71	7.25	6/15/2025
MML HIGH YIELD FUND	FIXED INCOME	WARRIOR MET COAL INC	347,475.00	339,000	0.25	8	11/1/2024
MML HIGH YIELD FUND	FIXED INCOME	ACRISURE LLC / FIN INC	737,567.95	791,000	0.54	7	11/15/2025
MML HIGH YIELD FUND	FIXED INCOME	PLATFORM SPECIALTY PROD	408,522.78	414,000	0.30	5.875	12/1/2025
MML HIGH YIELD FUND	FIXED INCOME	WELLTEC A/S	1,037,500.00	1,000,000	0.76	9.5	12/1/2022
MML HIGH YIELD FUND	FIXED INCOME	POST HOLDINGS INC	450,450.00	468,000	0.33	5.625	1/15/2028
MML HIGH YIELD FUND	FIXED INCOME	JAMES HARDIE INTL FIN	457,718.75	485,000	0.34	5	1/15/2028
MML HIGH YIELD FUND	FIXED INCOME	STANDARD INDUSTRIES INC	1,242,376.50	1,345,000	0.91	4.75	1/15/2028
MML HIGH YIELD FUND	FIXED INCOME	MATTEL INC	144,060.00	147,000	0.11	6.75	12/31/2025
MML HIGH YIELD FUND	FIXED INCOME	TRIUMPH GROUP INC	457,458.75	471,000	0.34	7.75	8/15/2025
MML HIGH YIELD FUND	FIXED INCOME	EP ENER/EVEREST ACQ FIN	293,700.00	356,000	0.22	9.375	5/1/2024
MML HIGH YIELD FUND	FIXED INCOME	ENSCO PLC	232,245.00	234,000	0.17	7.75	2/1/2026
MML HIGH YIELD FUND	FIXED INCOME	ICAHN ENTERPRISES/FIN	763,853.75	761,000	0.56	6.375	12/15/2025
MML HIGH YIELD FUND	FIXED INCOME	CROWN AMER/CAP CORP VI	191,000.00	200,000	0.14	4.75	2/1/2026
MML HIGH YIELD FUND	FIXED INCOME	T MOBILE USA INC	212,722.50	226,000	0.16	4.75	2/1/2028
MML HIGH YIELD FUND	FIXED INCOME	T MOBILE USA INC	140,292.39	147,000	0.10	4.5	2/1/2026
MML HIGH YIELD FUND	FIXED INCOME	BRUNSWICK CORP	319,060.29	285,000	0.23	7.375	9/1/2023
MML HIGH YIELD FUND	FIXED INCOME	BRUNSWICK CORP	2,554,327.95	2,245,000	1.87	7.125	8/1/2027
MML HIGH YIELD FUND	CASH	US DOLLAR	2,068,740.19	2,068,740	1.52	0	
MML HIGH YIELD FUND	FIXED INCOME	FRONTIER COMMUNICATIONS	1,257,875.00	1,250,000	0.92	7.125	3/15/2019
MML HIGH YIELD FUND	FIXED INCOME	TRANSOCEAN INC	417,795.00	483,000	0.31	6.8	3/15/2038
MML HIGH YIELD FUND	FIXED INCOME	CENTURYLINK INC	519,375.00	500,000	0.38	6.75	12/1/2023
MML HIGH YIELD FUND	FIXED INCOME	TENET HEALTHCARE CORP	358,292.00	340,000	0.26	8.125	4/1/2022
MML HIGH YIELD FUND	FIXED INCOME	ALTICE FINCO SA	621,150.00	615,000	0.46	8.125	1/15/2024
MML HIGH YIELD FUND	FIXED INCOME	HECLA MINING CO	1,274,177.50	1,271,000	0.93	6.875	5/1/2021
MML HIGH YIELD FUND	FIXED INCOME	CALUMET SPECIALTY PROD	362,905.00	362,000	0.27	7.625	1/15/2022
MML HIGH YIELD FUND	FIXED INCOME	JBS USA LUX/JBS USA FIN	818,850.00	824,000	0.60	6.75	2/15/2028
MML HIGH YIELD FUND	FIXED INCOME	APEX TOOL / BC MOUNTAIN	1,106,705.00	1,138,000	0.81	9	2/15/2023
MML HIGH YIELD FUND	FIXED INCOME	SPRINT CORP	446,792.50	422,000	0.33	7.625	3/1/2026
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	647,250.00	600,000	0.47	9.25	4/1/2026
MML HIGH YIELD FUND	FIXED INCOME	CEQUEL COM HLDG I/CAP CP	592,543.75	565,000	0.43	7.5	4/1/2028
MML HIGH YIELD FUND	FIXED INCOME	KCA DEUTAG UK FINANCE PL	334,180.00	341,000	0.25	9.625	4/1/2023
MML HIGH YIELD FUND	EQUITY	FIELDWOOD	663,561.00	13,011	0.49	0	
MML HIGH YIELD FUND	FIXED INCOME	FIELDWOOD ENERGY LLC	375,115.38	387,384	0.28	0	4/11/2023

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML HIGH YIELD FUND	FIXED INCOME	JB POINDEXTER + CO INC	303,987.50	293,000	0.22	7.125	4/15/2026
MML HIGH YIELD FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	319,864.87	315,000	0.23	6	4/15/2024
MML HIGH YIELD FUND	FIXED INCOME	NETFLIX INC	592,768.75	595,000	0.43	5.875	11/15/2028
MML HIGH YIELD FUND	FIXED INCOME	CHESAPEAKE ENERGY CORP	926,062.50	898,000	0.68	8	1/15/2025
MML HIGH YIELD FUND	FIXED INCOME	TRANSDIGM UK HOLDINGS	403,316.25	393,000	0.30	6.875	5/15/2026
MML HIGH YIELD FUND	FIXED INCOME	CHESAPEAKE ENERGY CORP	25,500.00	25,000	0.02	8	6/15/2027
MML HIGH YIELD FUND	FIXED INCOME	FIELDWOOD ENERGY LLC	677,421.05	674,554	0.50	0	4/11/2022
MML HIGH YIELD FUND	EQUITY	FIELDWOOD ENERGY LLC	162,843.00	3,193	0.12	0	
MML HIGH YIELD FUND	FIXED INCOME	TRANSOCEAN GUARDIAN LTD	271,353.75	269,000	0.20	5.875	1/15/2024
MML HIGH YIELD FUND	FIXED INCOME	KINROSS GOLD CORP	572,032.00	640,000	0.42	4.5	7/15/2027
MML HIGH YIELD FUND	FIXED INCOME	SIMMONS FOODS INC	195,615.00	189,000	0.14	7.75	1/15/2024
MML HIGH YIELD FUND	FIXED INCOME	TENET HEALTHCARE CORP	389,000.00	400,000	0.29	4.625	7/15/2024
MML HIGH YIELD FUND	FIXED INCOME	PGT ESCROW ISSUER INC	462,725.00	446,000	0.34	6.75	8/1/2026
MML HIGH YIELD FUND	FIXED INCOME	INTELSAT CONNECT FINANCE	155,220.00	156,000	0.11	9.5	2/15/2023
MML HIGH YIELD FUND	FIXED INCOME	KGA ESCROW LLC	441,975.00	426,000	0.32	7.5	8/15/2023
MML HIGH YIELD FUND	FIXED INCOME	SM ENERGY CO	194,345.00	188,000	0.14	6.625	1/15/2027
MML HIGH YIELD FUND	CASH EQUIVALENT	ENTERPRISE PRODS OPER LLC	2,499,505.20	2,500,000	1.83	0	10/1/2018
MML HIGH YIELD FUND	EQUITY	APPVION HLDG CORP	-	2,106	0.00	0	
MML HIGH YIELD FUND	FIXED INCOME	REGIONALCARE HOSPITAL PR	184,800.00	176,000	0.14	8.25	5/1/2023
MML HIGH YIELD FUND	FIXED INCOME	STONEMOR PART/CORNER FAM	625,600.00	680,000	0.46	7.875	6/1/2021
MML HIGH YIELD FUND	FIXED INCOME	CHEMOURS CO	433,740.41	409,000	0.32	7	5/15/2025
MML HIGH YIELD FUND	FIXED INCOME	PENSKE AUTOMOTIVE GROUP	972,200.00	1,000,000	0.71	5.5	5/15/2026
MML HIGH YIELD FUND	FIXED INCOME	SIRIUS XM RADIO INC	165,747.50	167,000	0.12	5.375	7/15/2026
MML HIGH YIELD FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	551,375.00	550,000	0.40	5.75	2/15/2026
MML HIGH YIELD FUND	FIXED INCOME	VERITAS US INC/BERMUDA L	1,372,500.00	1,500,000	1.01	10.5	2/1/2024
MML HIGH YIELD FUND	FIXED INCOME	DECK CHASSIS ACQ INC	2,133,780.00	2,013,000	1.56	10	6/15/2023
MML HIGH YIELD FUND	FIXED INCOME	WMG ACQUISITION CORP	262,000.00	262,000	0.19	5	8/1/2023
MML HIGH YIELD FUND	FIXED INCOME	DISH DBS CORP	972,542.30	1,031,000	0.71	7.75	7/1/2026
MML HIGH YIELD FUND	FIXED INCOME	ZIGGO BV	458,804.25	489,000	0.34	5.5	1/15/2027
MML HIGH YIELD FUND	FIXED INCOME	RP CROWN PARENT LLC	198,162.50	191,000	0.15	7.375	10/15/2024
MML HIGH YIELD FUND	FIXED INCOME	KISSNER HLD / MILL / BSC	1,252,562.50	1,225,000	0.92	8.375	12/1/2022
MML HIGH YIELD FUND	FIXED INCOME	CARLSON TRAVEL INC	497,860.00	496,000	0.37	6.75	12/15/2023
MML HIGH YIELD FUND	FIXED INCOME	CARLSON TRAVEL INC	831,830.00	862,000	0.61	9.5	12/15/2024
MML HIGH YIELD FUND	FIXED INCOME	PBF HOLDING CO LLC	48,880.00	47,000	0.04	7	11/15/2023
MML HIGH YIELD FUND	FIXED INCOME	PARK AEROSPACE HOLDINGS	251,178.75	249,000	0.18	5.25	8/15/2022
MML HIGH YIELD FUND	FIXED INCOME	EP ENER/EVEREST ACQ FIN	826,965.00	1,081,000	0.61	8	2/15/2025
MML HIGH YIELD FUND	FIXED INCOME	POST HOLDINGS INC	306,682.50	309,000	0.22	5.5	3/1/2025
MML HIGH YIELD FUND	FIXED INCOME	POST HOLDINGS INC	374,360.00	382,000	0.27	5.75	3/1/2027
MML HIGH YIELD FUND	FIXED INCOME	PEABODY ENERGY CORP	898,452.50	883,000	0.66	6	3/31/2022
MML HIGH YIELD FUND	FIXED INCOME	TRANSDIGM INC	1,231,190.00	1,219,000	0.90	6.375	6/15/2026
MML HIGH YIELD FUND	FIXED INCOME	LPL HOLDINGS INC	1,331,605.00	1,364,000	0.98	5.75	9/15/2025
MML HIGH YIELD FUND	FIXED INCOME	PINNACLE OPERATING CORP	1,484,094.58	1,667,522	1.09	9	5/15/2023
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	306,385.00	290,000	0.22	7	3/15/2024
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	177,840.00	171,000	0.13	6.5	3/15/2022
MML HIGH YIELD FUND	FIXED INCOME	FIRST QUANTUM MINERALS L	629,756.88	659,000	0.46	7.25	4/1/2023
MML HIGH YIELD FUND	FIXED INCOME	FIRST QUANTUM MINERALS L	618,585.00	652,000	0.45	7.5	4/1/2025
MML HIGH YIELD FUND	FIXED INCOME	NRG ENERGY INC	737,100.00	702,000	0.54	6.625	1/15/2027
MML HIGH YIELD FUND	FIXED INCOME	CARDTRONICS INC / USA	551,990.00	578,000	0.40	5.5	5/1/2025
MML HIGH YIELD FUND	FIXED INCOME	USIS MERGER SUB INC	833,910.00	836,000	0.61	6.875	5/1/2025
MML HIGH YIELD FUND	FIXED INCOME	ALLIANCE RES OP/FINANCE	712,485.00	669,000	0.52	7.5	5/1/2025
MML HIGH YIELD FUND	FIXED INCOME	HUGHES SATELLITE SYSTEMS	784,875.00	805,000	0.58	5.25	8/1/2026
MML HIGH YIELD FUND	FIXED INCOME	NIELSEN FINANCE LLC/CO	609,375.00	625,000	0.45	5	4/15/2022

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML HIGH YIELD FUND	FIXED INCOME	TULLOW OIL PLC	1,364,272.80	1,364,000	1.00	6.25	4/15/2022
MML HIGH YIELD FUND	FIXED INCOME	CAELUS ENERGY ALASKA O3 LLC	1,499,886.13	1,639,220	1.10	0	4/15/2020
MML HIGH YIELD FUND	FIXED INCOME	ENDO FIN LLC/ENDO FINCO	109,200.00	112,000	0.08	7.25	1/15/2022
MML HIGH YIELD FUND	FIXED INCOME	ORTHO CLINICAL INC/SA	1,801,588.00	1,844,000	1.32	6.625	5/15/2022
MML HIGH YIELD FUND	FIXED INCOME	TELECOM ITALIA SPA	498,560.00	512,000	0.37	5.303	5/30/2024
MML HIGH YIELD FUND	FIXED INCOME	JBS USA LLC/JBS USA FINA	636,310.00	646,000	0.47	5.875	7/15/2024
MML HIGH YIELD FUND	FIXED INCOME	COMPASS MINERALS INTERNA	272,317.50	294,000	0.20	4.875	7/15/2024
MML HIGH YIELD FUND	FIXED INCOME	GRIFFON CORPORATION	172,042.50	174,000	0.13	5.25	3/1/2022
MML HIGH YIELD FUND	FIXED INCOME	ALLEGIANT TRAVEL CO	1,363,500.00	1,350,000	1.00	5.5	7/15/2019
MML HIGH YIELD FUND	FIXED INCOME	ENDO FIN LLC/ENDO FINCO	122,320.00	139,000	0.09	5.375	1/15/2023
MML HIGH YIELD FUND	FIXED INCOME	C+S GROUP ENTERPRISES LL	1,019,700.00	1,030,000	0.75	5.375	7/15/2022
MML HIGH YIELD FUND	FIXED INCOME	KOSMOS ENERGY LTD	814,000.00	800,000	0.60	7.875	8/1/2021
MML HIGH YIELD FUND	FIXED INCOME	MALLINCKRODT FIN/SB	174,352.50	189,000	0.13	5.75	8/1/2022
MML HIGH YIELD FUND	FIXED INCOME	FERRELLGAS LP/FERRELLGAS	436,250.00	500,000	0.32	6.75	1/15/2022
MML HIGH YIELD FUND	FIXED INCOME	JUPITER RESOURCES INC	1,097,250.00	2,310,000	0.80	8.5	10/1/2022
MML HIGH YIELD FUND	FIXED INCOME	YORK RISK SERVICES HLDG	870,480.00	992,000	0.64	8.5	10/1/2022
MML HIGH YIELD FUND	FIXED INCOME	AMERICAN AIRLINES GROUP	1,917,001.25	1,891,000	1.41	5.5	10/1/2019
MML HIGH YIELD FUND	FIXED INCOME	TRIUMPH GROUP INC	287,462.50	305,000	0.21	5.25	6/1/2022
MML HIGH YIELD FUND	FIXED INCOME	SPRINT CORP	1,702,267.50	1,578,000	1.25	7.875	9/15/2023
MML HIGH YIELD FUND	FIXED INCOME	SPRINT CORP	787,837.50	745,000	0.58	7.25	9/15/2021
MML HIGH YIELD FUND	FIXED INCOME	TIBCO SOFTWARE INC	3,071,197.50	2,877,000	2.25	11.375	12/1/2021
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	435,050.00	452,000	0.32	5.5	3/1/2023
MML HIGH YIELD FUND	FIXED INCOME	KINROSS GOLD CORP	449,820.00	441,000	0.33	5.95	3/15/2024
MML HIGH YIELD FUND	FIXED INCOME	ENDO DAC/FIN LLC/FINCO	845,622.00	981,000	0.62	6	2/1/2025
MML HIGH YIELD FUND	FIXED INCOME	ALTICE LUXEMBOURG SA	637,980.00	700,000	0.47	7.625	2/15/2025
MML HIGH YIELD FUND	FIXED INCOME	ALTICE FINANCING SA	604,500.00	600,000	0.44	6.625	2/15/2023
MML HIGH YIELD FUND	FIXED INCOME	CITGO HOLDING INC	1,777,620.00	1,677,000	1.30	10.75	2/15/2020
MML HIGH YIELD FUND	FIXED INCOME	WYNN LAS VEGAS LLC/CORP	135,275.00	140,000	0.10	5.5	3/1/2025
MML HIGH YIELD FUND	FIXED INCOME	PILGRIM S PRIDE CORP	237,737.50	247,000	0.17	5.75	3/15/2025
MML HIGH YIELD FUND	FIXED INCOME	PLATFORM SPECIALTY PROD	430,402.50	423,000	0.32	6.5	2/1/2022
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	1,560,850.00	1,643,000	1.14	6.125	4/15/2025
MML HIGH YIELD FUND	FIXED INCOME	BAUSCH HEALTH COS INC	188,175.00	193,000	0.14	5.875	5/15/2023
MML HIGH YIELD FUND	FIXED INCOME	KOSMOS ENERGY LTD	1,854,902.50	1,823,000	1.36	7.875	8/1/2021
MML HIGH YIELD FUND	FIXED INCOME	MALLINCKRODT FIN/SB	333,325.00	398,000	0.24	5.5	4/15/2025
MML HIGH YIELD FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	814,807.50	822,000	0.60	5.875	5/1/2027
MML HIGH YIELD FUND	FIXED INCOME	BROOKFIELD RESIDENTIAL	481,180.00	491,000	0.35	6.375	5/15/2025
MML HIGH YIELD FUND	FIXED INCOME	GENESIS ENERGY LP/GENESI	754,481.25	765,000	0.55	6	5/15/2023
MML HIGH YIELD FUND	FIXED INCOME	GCI LLC	1,602,762.00	1,550,000	1.18	6.875	4/15/2025
MML HIGH YIELD FUND	FIXED INCOME	VISTAJET MALTA FIN / VIS	694,398.40	688,000	0.51	7.75	6/1/2020
MML HIGH YIELD FUND	FIXED INCOME	ENPRO INDUSTRIES INC	1,294,831.25	1,271,000	0.95	5.875	9/15/2022
MML HIGH YIELD FUND	FIXED INCOME	KENAN ADVANTAGE GROUP	3,310,000.00	3,200,000	2.43	7.875	7/31/2023
MML HIGH YIELD FUND	FIXED INCOME	MIDCONTINENT COMM + FIN	904,219.20	864,000	0.66	6.875	8/15/2023
MML HIGH YIELD FUND	FIXED INCOME	AVANOS MEDICAL INC	1,327,794.00	1,300,000	0.97	6.25	10/15/2022
MML HIGH YIELD FUND	FIXED INCOME	MALLINCKRODT FIN/SB	178,770.00	202,000	0.13	5.625	10/15/2023
MML HIGH YIELD FUND	FIXED INCOME	RHP HOTEL PPTY/RHP FINAN	787,027.50	789,000	0.58	5	4/15/2023
MML HIGH YIELD FUND	FIXED INCOME	T MOBILE USA INC	711,388.30	679,000	0.52	6.5	1/15/2026
MML HIGH YIELD FUND	FIXED INCOME	HCA INC	1,184,942.50	1,138,000	0.87	5.875	2/15/2026
MML HIGH YIELD FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	1,524,375.00	1,500,000	1.12	5.875	4/1/2024
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML HIGH YIELD FUND	FIXED INCOME	FERL PRT LP/FERL PRT FIN	704,900.00	742,000	0.52	8.625	6/15/2020
MML HIGH YIELD FUND	FIXED INCOME	ALLEGHENY TECHNOLOGIES	1,211,370.00	1,192,000	0.89	5.95	1/15/2021
MML HIGH YIELD FUND	FIXED INCOME	TRANSOCEAN INC	150,937.50	150,000	0.11	9.35	12/15/2041
MML HIGH YIELD FUND	FIXED INCOME	INTELSAT JACKSON HLDG	900,112.50	889,000	0.66	7.5	4/1/2021
MML HIGH YIELD FUND	FIXED INCOME	KINROSS GOLD CORP	485,520.00	476,000	0.36	6.875	9/1/2041
MML HIGH YIELD FUND	FIXED INCOME	CLEAR CHANNEL WORLDWIDE	1,479,690.00	1,476,000	1.08	7.625	3/15/2020
MML HIGH YIELD FUND	FIXED INCOME	NEW GOLD INC	870,755.00	998,000	0.64	6.25	11/15/2022
MML HIGH YIELD FUND	FIXED INCOME	ZACHRY HOLDINGS INC	1,513,775.00	1,510,000	1.11	7.5	2/1/2020
MML HIGH YIELD FUND	FIXED INCOME	LBC TANK TERMINAL HLDING	1,102,667.50	1,111,000	0.81	6.875	5/15/2023
MML HIGH YIELD FUND	FIXED INCOME	TRIUMPH GROUP INC	407,230.00	422,000	0.30	4.875	4/1/2021
MML HIGH YIELD FUND	FIXED INCOME	KEHE DISTRIBUTORS LLC/FI	625,625.00	650,000	0.46	7.625	8/15/2021
MML INCOME & GROWTH FUND	EQUITY	DOMINION ENERGY INC	2,289,230.44	32,573	1.49	0	
MML INCOME & GROWTH FUND	EQUITY	KEYCORP	2,017,243.80	101,420	1.32	0	
MML INCOME & GROWTH FUND	EQUITY	LENNAR CORP A	1,300,830.09	27,861	0.85	0	
MML INCOME & GROWTH FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	2,268,878.04	27,612	1.48	0	
MML INCOME & GROWTH FUND	EQUITY	AMERCO	1,698,010.65	4,761	1.11	0	
MML INCOME & GROWTH FUND	EQUITY	CVS HEALTH CORP	2,626,492.80	33,365	1.72	0	
MML INCOME & GROWTH FUND	EQUITY	GENERAL ELECTRIC CO	1,634,679.10	144,790	1.07	0	
MML INCOME & GROWTH FUND	EQUITY	PHILLIPS 66	2,638,662.48	23,409	1.72	0	
MML INCOME & GROWTH FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	2,397,587.64	41,748	1.57	0	
MML INCOME & GROWTH FUND	EQUITY	NAVIENT CORP	1,231,735.00	91,375	0.80	0	
MML INCOME & GROWTH FUND	EQUITY	PARSLEY ENERGY INC CLASS A	1,754,181.00	59,972	1.15	0	
MML INCOME & GROWTH FUND	EQUITY	FIDELITY NATIONAL FINANCIAL	1,441,980.75	36,645	0.94	0	
MML INCOME & GROWTH FUND	EQUITY	ANTHEM INC	3,174,595.20	11,584	2.07	0	
MML INCOME & GROWTH FUND	EQUITY	MEDTRONIC PLC	2,745,408.33	27,909	1.79	0	
MML INCOME & GROWTH FUND	EQUITY	NIELSEN HOLDINGS PLC	1,571,447.58	56,813	1.03	0	
MML INCOME & GROWTH FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	1,218,683.20	74,720	0.80	0	
MML INCOME & GROWTH FUND	EQUITY	WILLIS TOWERS WATSON PLC	2,072,663.64	14,706	1.35	0	
MML INCOME & GROWTH FUND	EQUITY	MGM GROWTH PROPERTIES LLC A	1,483,464.96	50,304	0.97	0	
MML INCOME & GROWTH FUND	EQUITY	COCA COLA EUROPEAN PARTNERS	2,678,728.64	58,912	1.75	0	
MML INCOME & GROWTH FUND	EQUITY	JOHNSON CONTROLS INTERNATION	1,667,365.00	47,639	1.09	0	
MML INCOME & GROWTH FUND	EQUITY	VERSUM MATERIALS INC	902,374.59	25,059	0.59	0	
MML INCOME & GROWTH FUND	EQUITY	DOWDUPONT INC	2,232,585.96	34,716	1.46	0	
MML INCOME & GROWTH FUND	EQUITY	BROADCOM INC	2,166,042.67	8,779	1.41	0	
MML INCOME & GROWTH FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	4,800,322.65	4,800,323	3.13	1.1	10/1/2018
MML INCOME & GROWTH FUND	EQUITY	CHEVRON CORP	2,352,178.08	19,236	1.54	0	
MML INCOME & GROWTH FUND	EQUITY	ADVANCE AUTO PARTS INC	2,137,791.00	12,700	1.40	0	
MML INCOME & GROWTH FUND	EQUITY	SLM CORP	2,767,619.55	248,217	1.81	0	
MML INCOME & GROWTH FUND	EQUITY	CONOCOPHILLIPS	3,251,574.00	42,010	2.12	0	
MML INCOME & GROWTH FUND	EQUITY	COMCAST CORP CLASS A	2,387,023.51	67,411	1.56	0	
MML INCOME & GROWTH FUND	EQUITY	ALTRIA GROUP INC	1,582,594.71	26,241	1.03	0	
MML INCOME & GROWTH FUND	EQUITY	CARNIVAL CORP	1,351,286.30	21,190	0.88	0	
MML INCOME & GROWTH FUND	EQUITY	HESS CORP	2,738,579.22	38,259	1.79	0	
MML INCOME & GROWTH FUND	EQUITY	HANESBRANDS INC	1,171,705.68	63,576	0.77	0	
MML INCOME & GROWTH FUND	EQUITY	OWENS CORNING	1,500,891.12	27,656	0.98	0	
MML INCOME & GROWTH FUND	EQUITY	SPIRIT AEROSYSTEMS HOLD CL A	2,502,224.32	27,296	1.63	0	
MML INCOME & GROWTH FUND	EQUITY	BANK OF NEW YORK MELLON CORP	1,984,581.79	38,921	1.30	0	
MML INCOME & GROWTH FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	1,513,219.32	18,558	0.99	0	
MML INCOME & GROWTH FUND	EQUITY	MERCK + CO. INC.	1,296,641.32	18,278	0.85	0	
MML INCOME & GROWTH FUND	EQUITY	DOLLAR GENERAL CORP	2,871,748.20	26,274	1.88	0	
MML INCOME & GROWTH FUND	EQUITY	BERKSHIRE HATHAWAY INC CL B	2,490,955.74	11,634	1.63	0	
MML INCOME & GROWTH FUND	EQUITY	STANLEY BLACK + DECKER INC	2,439,543.96	16,659	1.59	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INCOME & GROWTH FUND	EQUITY	LYONDELLBASELL INDU CL A	1,434,319.92	13,992	0.94		0
MML INCOME & GROWTH FUND	EQUITY	E TRADE FINANCIAL CORP	1,966,458.65	37,535	1.28		0
MML INCOME & GROWTH FUND	EQUITY	VERMILION ENERGY INC	2,149,269.12	65,248	1.40		0
MML INCOME & GROWTH FUND	EQUITY	O REILLY AUTOMOTIVE INC	1,860,593.24	5,357	1.21		0
MML INCOME & GROWTH FUND	EQUITY	KOSMOS ENERGY LTD	1,822,165.40	194,884	1.19		0
MML INCOME & GROWTH FUND	EQUITY	EXPRESS SCRIPTS HOLDING CO	2,162,807.64	22,764	1.41		0
MML INCOME & GROWTH FUND	EQUITY	MICROSOFT CORP	2,442,485.72	21,356	1.59		0
MML INCOME & GROWTH FUND	EQUITY	ORACLE CORP	2,296,379.28	44,538	1.50		0
MML INCOME & GROWTH FUND	EQUITY	PFIZER INC	2,660,241.48	60,364	1.74		0
MML INCOME & GROWTH FUND	EQUITY	PRAXAIR INC	2,287,027.17	14,229	1.49		0
MML INCOME & GROWTH FUND	EQUITY	WELLS FARGO + CO	2,437,732.80	46,380	1.59		0
MML INCOME & GROWTH FUND	EQUITY	PNC FINANCIAL SERVICES GROUP	1,452,193.97	10,663	0.95		0
MML INCOME & GROWTH FUND	EQUITY	BANK OF AMERICA CORP	3,791,531.46	128,701	2.48		0
MML INCOME & GROWTH FUND	EQUITY	LOWE S COS INC	3,170,869.12	27,616	2.07		0
MML INCOME & GROWTH FUND	EQUITY	TEXAS INSTRUMENTS INC	2,184,746.27	20,363	1.43		0
MML INCOME & GROWTH FUND	EQUITY	BP PLC SPONS ADR	2,597,688.90	56,349	1.70		0
MML INCOME & GROWTH FUND	EQUITY	STATE STREET CORP	1,996,561.18	23,831	1.30		0
MML INCOME & GROWTH FUND	EQUITY	UNITED TECHNOLOGIES CORP	2,474,077.76	17,696	1.62		0
MML INCOME & GROWTH FUND	EQUITY	AMERICAN EXPRESS CO	2,967,982.79	27,871	1.94		0
MML INCOME & GROWTH FUND	EQUITY	CARDINAL HEALTH INC	1,317,546.00	24,399	0.86		0
MML INCOME & GROWTH FUND	EQUITY	AIR PRODUCTS + CHEMICALS INC	2,415,877.10	14,462	1.58		0
MML INCOME & GROWTH FUND	EQUITY	CIGNA CORP	2,273,881.75	10,919	1.48		0
MML INCOME & GROWTH FUND	EQUITY	QUALCOMM INC	2,064,379.80	28,660	1.35		0
MML INCOME & GROWTH FUND	EQUITY	UNITEDHEALTH GROUP INC	3,278,943.00	12,325	2.14		0
MML INCOME & GROWTH FUND	EQUITY	TEVA PHARMACEUTICAL SP ADR	919,305.66	42,679	0.60		0
MML INCOME & GROWTH FUND	EQUITY	MICROCHIP TECHNOLOGY INC	1,729,628.29	21,919	1.13		0
MML INCOME & GROWTH FUND	EQUITY	EXELON CORP	1,597,388.42	36,587	1.04		0
MML INCOME & GROWTH FUND	EQUITY	NEW YORK COMMUNITY BANCORP	1,418,201.20	136,760	0.93		0
MML INCOME & GROWTH FUND	EQUITY	JPMORGAN CHASE + CO	3,021,742.36	26,779	1.97		0
MML INCOME & GROWTH FUND	EQUITY	ROYAL CARIBBEAN CRUISES LTD	2,591,003.60	19,940	1.69		0
MML INCOME & GROWTH FUND	EQUITY	LOEWS CORP	5,814,926.18	115,766	3.88		0
MML INCOME & GROWTH FUND	EQUITY	ENTERGY CORP	4,333,802.34	53,418	2.89		0
MML INCOME & GROWTH FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	4,327,072.20	52,660	2.88		0
MML INCOME & GROWTH FUND	EQUITY	CVS HEALTH CORP	4,823,174.40	61,270	3.22		0
MML INCOME & GROWTH FUND	EQUITY	GENERAL ELECTRIC CO	4,003,783.99	354,631	2.67		0
MML INCOME & GROWTH FUND	EQUITY	ORACLE CORP	3,204,608.68	62,153	2.14		0
MML INCOME & GROWTH FUND	EQUITY	PFIZER INC	5,973,027.45	135,535	3.98		0
MML INCOME & GROWTH FUND	EQUITY	PRAXAIR INC	3,119,126.38	19,406	2.08		0
MML INCOME & GROWTH FUND	EQUITY	WALMART INC	2,115,886.21	22,531	1.41		0
MML INCOME & GROWTH FUND	EQUITY	WELLS FARGO + CO	5,101,946.64	97,069	3.40		0
MML INCOME & GROWTH FUND	EQUITY	BANK OF AMERICA CORP	4,566,800.82	155,017	3.04		0
MML INCOME & GROWTH FUND	EQUITY	INTL BUSINESS MACHINES CORP	3,061,095.24	20,244	2.04		0
MML INCOME & GROWTH FUND	CASH	US DOLLAR	2.00	2	0.00		0
MML INCOME & GROWTH FUND	EQUITY	BP PLC SPONS ADR	2,429,009.00	52,690	1.62		0
MML INCOME & GROWTH FUND	EQUITY	JOHNSON + JOHNSON	3,273,938.15	23,695	2.18		0
MML INCOME & GROWTH FUND	EQUITY	STATE STREET CORP	2,358,155.66	28,147	1.57		0
MML INCOME & GROWTH FUND	EQUITY	UNITED TECHNOLOGIES CORP	4,738,859.95	33,895	3.16		0
MML INCOME & GROWTH FUND	EQUITY	WHIRLPOOL CORP	1,480,812.50	12,470	0.99		0
MML INCOME & GROWTH FUND	EQUITY	AMERICAN EXPRESS CO	4,911,531.78	46,122	3.27		0
MML INCOME & GROWTH FUND	EQUITY	CARDINAL HEALTH INC	1,212,462.00	22,453	0.81		0
MML INCOME & GROWTH FUND	EQUITY	SCHLUMBERGER LTD	4,118,009.24	67,597	2.74		0
MML INCOME & GROWTH FUND	EQUITY	QUALCOMM INC	3,327,858.03	46,201	2.22		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INCOME & GROWTH FUND	EQUITY	SOUTHWEST AIRLINES CO	1,714,939.45	27,461	1.14	0	
MML INCOME & GROWTH FUND	EQUITY	TYSON FOODS INC CL A	1,520,753.38	25,546	1.01	0	
MML INCOME & GROWTH FUND	EQUITY	VERIZON COMMUNICATIONS INC	3,599,500.41	67,419	2.40	0	
MML INCOME & GROWTH FUND	EQUITY	EXELON CORP	4,491,129.56	102,866	2.99	0	
MML INCOME & GROWTH FUND	EQUITY	JPMORGAN CHASE + CO	5,246,608.64	46,496	3.50	0	
MML INCOME & GROWTH FUND	EQUITY	US BANCORP	4,629,483.03	87,663	3.09	0	
MML INCOME & GROWTH FUND	EQUITY	RAYTHEON COMPANY	1,572,062.62	7,607	1.05	0	
MML INCOME & GROWTH FUND	EQUITY	CHEVRON CORP	4,410,028.20	36,065	2.94	0	
MML INCOME & GROWTH FUND	EQUITY	SANOFI ADR	3,083,391.42	69,026	2.06	0	
MML INCOME & GROWTH FUND	EQUITY	CONOCOPHILLIPS	4,455,763.20	57,568	2.97	0	
MML INCOME & GROWTH FUND	EQUITY	ALTRIA GROUP INC	3,435,740.08	56,968	2.29	0	
MML INCOME & GROWTH FUND	EQUITY	AT+T INC	3,078,312.18	91,671	2.05	0	
MML INCOME & GROWTH FUND	EQUITY	HCP INC	3,372,644.80	128,140	2.25	0	
MML INCOME & GROWTH FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	3,223,602.36	39,534	2.15	0	
MML INCOME & GROWTH FUND	EQUITY	MERCK + CO. INC.	3,429,878.06	48,349	2.29	0	
MML INCOME & GROWTH FUND	EQUITY	STANLEY BLACK + DECKER INC	2,720,562.32	18,578	1.81	0	
MML INCOME & GROWTH FUND	EQUITY	PHILLIPS 66	4,114,392.72	36,501	2.74	0	
MML INCOME & GROWTH FUND	EQUITY	JOHNSON CONTROLS INTERNATION	4,314,030.00	123,258	2.88	0	
MML INCOME & GROWTH FUND	EQUITY	ADIANT PLC	1,400,497.37	35,627	0.93	0	
MML INCOME & GROWTH FUND	EQUITY	DOWDUPONT INC	5,015,022.42	77,982	3.34	0	
MML INCOME & GROWTH FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	2,896,336.59	2,896,337	1.93	1.1	10/1/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	419,434.47	420,000	0.04	2.84	8/16/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARINER FINANCE ISSUANCE TRUST	769,868.72	770,000	0.07	3.62	2/20/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MVW OWNER TRUST	167,551.97	173,298	0.01	2.42	12/20/2034
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AMERICAN CREDIT ACCEPTANCE REC	873,506.32	873,294	0.08	2.94	1/10/2022
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	B A T INTL FIN	3,499,307.28	3,500,000	0.31	0	10/1/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1114651 IRS USD P F 2.31400	(27,599,254.25)	(27,600,000)	2.47	2.314	10/1/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	381,345.96	415,597	0.03	2.62263	6/25/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	GNMA II POOL 082462	147,023.94	141,973	0.01	3.375	1/20/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	OSCAR US FUNDING TRUST	720,226.15	722,100	0.06	2.44	6/15/2022
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	DAIWA CAPITAL FORWARDS COC USD	1,110,000.00	1,110,000	0.10	0	
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1058767 CDS USD R F 3.00000	291,082.68	330,000	0.03	3	5/11/2063
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1058767 CDS USD P V 01MEVENT	(330,000.00)	(330,000)	0.03	1	5/11/2063
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1058601 CDS USD P V 01MEVENT	(890,000.00)	(890,000)	0.08	1	5/11/2063
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	486,019.94	474,856	0.04	4.06581	10/27/2036
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,281,807.00	2,200,000	0.20	3.51581	3/25/2066
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1107150 IRS USD P F 2.09500	(5,271,299.44)	(5,300,000)	0.47	2.095	1/19/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	700,795.90	710,475	0.06	3.5	6/25/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	819,308.88	819,309	0.07	2.40581	3/25/2067
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	1,125,077.18	1,120,000	0.10	2.93581	3/25/2067
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	902,726.89	921,620	0.08	2.976	12/25/2057
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	903,585.93	921,620	0.08	3.027	12/25/2057
MML INFLATION-PROTECTED & INCOME FUND	OPTIONS	BM1107838 SWAPTION	663,790.38	12,590,000	0.06	0	1/31/2033
MML INFLATION-PROTECTED & INCOME FUND	OPTIONS	BM1107945 SWAPTION	241,918.40	6,310,000	0.02	0	1/31/2033
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TPG REAL ESTATE FINANCE	639,808.96	640,000	0.06	2.90844	2/15/2035
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ARI FLEET LEASE TRUST	736,355.31	736,929	0.07	1.95	3/15/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,434,852.83	2,454,757	0.22	2.53	2/18/2042
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	1,628,927.42	1,636,404	0.15	2.59	6/15/2022
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	LENDMARK FUNDING TRUST	629,338.88	630,000	0.06	3.81	12/21/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	WESTLAKE AUTOMOBILE RECEIVABLE	1,438,319.95	1,440,000	0.13	2.84	9/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	WESTLAKE AUTOMOBILE RECEIVABLE	789,402.89	789,374	0.07	2.5	5/15/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	1,501,492.05	1,500,000	0.13	2.87844	1/15/2037
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	WPP CP LLC	1,399,629.62	1,400,000	0.13	0	10/2/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO DAIWA SECURITIES	(57,797,500.00)	(57,797,500)	5.17	2.2	10/10/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ACCESS GROUP INC	82,193.66	84,043	0.01	3.19	7/1/2038
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	576,615.71	597,371	0.05	2.44531	1/26/2043
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FED HM LN PC POOL 1Q0239	391,263.46	370,924	0.03	3.798	3/1/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	649,855.07	690,534	0.06	2.35844	3/15/2042
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	750,000.00	750,000	0.07	5.083	9/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	240,000.00	240,000	0.02	4.08	3/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	325,865.32	342,897	0.03	2.80531	10/25/2064
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	GCCFC COMMERCIAL MORTGAGE TRUS	279,396.67	276,499	0.02	5.92809	7/10/2038
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CITIGROUP MORTGAGE LOAN TRUST	15,240.67	15,238	0.00	2.89081	5/25/2035
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLC STUDENT LOAN TRUST	1,342,585.72	1,426,539	0.12	2.56413	12/15/2039
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ACCESS GROUP INC	684,874.62	713,110	0.06	2.93638	9/22/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ACE SECURITIES CORP.	4,268.19	4,251	0.00	2.95081	8/25/2035
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CREDIT SUISSE FIRST BOSTON MOR	30,152.80	29,786	0.00	3.91581	3/25/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	728,758.83	733,150	0.07	2.44531	10/25/2033
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	1,277,607.38	1,286,789	0.11	2.46638	3/23/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	399,152.32	400,000	0.04	2.63531	7/25/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	427,211.82	452,335	0.04	2.64531	1/25/2055
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	430,799.58	459,905	0.04	2.55531	1/25/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	408,006.08	429,481	0.04	2.53531	1/25/2070
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLC STUDENT LOAN TRUST	1,997,262.03	2,133,941	0.18	2.61413	3/15/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	KEYCORP STUDENT LOAN TRUST	276,128.09	276,765	0.02	2.691	9/27/2035
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	969,000.41	1,024,499	0.09	2.53638	3/23/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	1,314,336.54	1,320,000	0.12	2.83	3/15/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1114651 IRS USD R V 12MUSCPI	27,600,000.00	27,600,000	2.47	1	10/1/2020
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO HSBC	(21,970,625.00)	(21,970,625)	1.96	2.2	10/17/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	900,036.00	900,000	0.08	2.65581	9/27/2066
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	HP INC	5,993,820.48	6,000,000	0.54	0	10/15/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	907,823.31	903,323	0.08	4	8/25/2048
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	THOMSON REUTERS CORP	5,998,384.68	6,000,000	0.54	0	10/2/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CGG RECEIVABLES TRUST	1,116,960.88	1,120,000	0.10	3.09	12/15/2025
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	ENTERGY CORPORATION	5,969,019.00	6,000,000	0.53	0	12/6/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	BELL CANADA	5,969,279.16	6,000,000	0.53	0	12/10/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	SPECTRA ENERGY PARTNERS	2,797,731.08	2,800,000	0.25	0	10/10/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	1,130,000.00	1,130,000	0.10	2.431	9/15/2025
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	MICHELIN LUXEMBOURG SCS	5,965,693.32	6,000,000	0.53	0	12/17/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	KEURIG DR PEPPER	5,987,018.64	6,000,000	0.54	0	10/30/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	AON CORPORATION	3,595,352.62	3,600,000	0.32	0	10/17/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	FMC TECH INC	5,992,254.36	6,000,000	0.54	0	10/17/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	SUNCOR ENERGY INC	5,965,210.50	6,000,000	0.53	0	12/18/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	MARRIOTT INTERNATIONAL	5,981,086.32	6,000,000	0.53	0	11/13/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1047976 CDS USD P V 01MEVENT	(450,000.00)	(450,000)	0.04	1	11/17/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1058601 CDS USD R F 3.00000	785,041.18	890,000	0.07	3	5/11/2063
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARLETTE FUNDING TRUST	1,374,881.37	1,379,143	0.12	2.61	3/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	462,143.90	463,496	0.04	2.21	5/17/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	446,033.88	450,000	0.04	2.75	4/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	VMC FINANCE LLC	1,168,515.67	1,169,231	0.10	2.97844	4/15/2035

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TESLA AUTO LEASE TRUST	645,266.33	647,029	0.06	2.32	12/20/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TESLA AUTO LEASE TRUST	263,865.77	265,000	0.02	2.75	2/20/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	744,339.36	741,699	0.07	4	2/25/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	7,719,940.66	7,817,765	0.69	1	2/15/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BCC FUNDING CORP	974,552.38	980,000	0.09	2.96	6/20/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BCC FUNDING CORP	1,189,138.42	1,189,556	0.11	2.2	2/20/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	926,763.93	939,548	0.08	3.5	3/25/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	PNMAC GMSR ISSUER TRUST	445,091.06	440,000	0.04	5.06581	2/25/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TLF NATIONAL TAX LIEN TRUST	1,059,988.02	1,062,789	0.09	3.09	12/15/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	4,126,281.74	4,125,662	0.37	2.96581	2/27/2068
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ACCESS GROUP INC	54,926.91	54,927	0.00	2.48963	11/22/2024
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	159,508.45	167,434	0.01	2.35844	9/15/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	295,896.79	302,088	0.03	2.35844	12/15/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BRAZOS TX HGR EDU AUTH	1,148,671.49	1,166,063	0.10	2.49263	6/25/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	JP MORGAN STUDENT LOAN TRUST	573,260.96	600,178	0.05	2.68888	6/28/2039
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	481,487.29	503,051	0.04	2.98413	12/15/2038
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	GOAL CAPITAL FUNDING TRUST	378,793.40	378,975	0.03	3.01138	8/25/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	79,791.28	79,087	0.01	3.01581	4/25/2046
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	COLLEGE LOAN CORPORATON TRUST	507,130.60	540,401	0.05	2.82919	1/15/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	LOUISIANA ST PUBLIC FACS AUTH	108,714.13	108,589	0.01	3.23531	4/26/2027
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ACADEMIC LOAN FUNDING TRUST	2,056,302.64	2,062,857	0.18	3.01581	12/26/2044
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	575,818.67	585,735	0.05	2.35844	3/15/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRUG ROYALTY II LP 1	192,275.21	190,736	0.02	5.18919	7/15/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	1,625,318.26	1,659,261	0.15	2.35844	6/15/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	663,154.07	654,143	0.06	3.35844	12/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	138,972.96	137,967	0.01	3.41581	3/25/2033
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CFC LLC	14,274.39	14,279	0.00	1.75	6/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EDUCATIONAL SERVICES OF AMERIC	528,845.83	528,825	0.05	3.01581	10/25/2056
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CAZENOVIA CREEK FUNDING LLC	156,189.11	156,581	0.01	2	12/10/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1048172 CDS USD R F 3.00000	608,627.43	690,000	0.05	3	11/17/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1048172 CDS USD P V 01MEVENT	(690,000.00)	(690,000)	0.06	1	11/17/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	54,603.03	54,609	0.00	2.73	7/20/2027
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	29,686.67	29,696	0.00	1.98	10/15/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	GENERAL MOTORS FINL CO	1,728,565.77	1,720,000	0.15	4.39919	1/15/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BLUE VIRGO	377,356.00	377,356	0.03	3	12/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EDUCATIONAL SERVICES OF AMERIC	1,014,941.80	1,000,000	0.09	3.71581	12/25/2058
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	737,623.86	733,441	0.07	3.06581	6/25/2065
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	477,971.48	481,149	0.04	3.968	6/17/2024
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CHESAPEAKE FUNDING II LLC	857,060.67	854,282	0.08	3.15844	6/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CONSUMER INSTALLMENT LOAN TRUS	19,168.24	19,170	0.00	3.96	7/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	427,182.58	450,572	0.04	2.54531	10/25/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	1,670,437.04	1,677,071	0.15	3.06	9/25/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CPX AUTO TRUST	1,994,442.00	2,000,000	0.18	2.68	5/17/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	698,567.10	700,000	0.06	3	12/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	725,306.03	723,223	0.06	2.91581	3/26/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	1,641,286.36	1,619,424	0.15	3.41581	12/27/2066
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	WESTGATE RESORTS	579,377.73	586,384	0.05	3.05	12/20/2030
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CARDINAL HEALTH INC	2,063,438.26	2,060,000	0.18	3.10413	6/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	2,550,366.95	2,550,000	0.23	2.93531	10/25/2065
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AVANT LOANS FUNDING TRUST	159,490.70	159,577	0.01	2.29	6/15/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DT AUTO OWNER TRUST	628,397.95	629,476	0.06	1.85	8/17/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AMERICAN CREDIT ACCEPTANCE REC	1,443,248.37	1,450,000	0.13	2.94	1/10/2024

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARINER FINANCE ISSUANCE TRUST	1,574,390.40	1,600,000	0.14	2.92	12/20/2029
MML INFLATION-PROTECTED & INCOME FUND	OPTIONS	BM1106004 SWAPTION	1,329,960.63	22,880,000	0.12	0	12/13/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1106707 IRS USD R V 12MUSCPI	17,000,000.00	17,000,000	1.52	1	12/20/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1106707 IRS USD P F 1.91000	(16,839,495.86)	(17,000,000)	1.51	1.91	12/20/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EDLINC STUDENT LOAN FUNDING TR	1,110,634.27	1,123,145	0.10	3.35	12/1/2047
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1106996 IRS USD R V 12MUSCPI	8,500,000.00	8,500,000	0.76	1	1/11/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1106996 IRS USD P F 2.05750	(8,445,802.22)	(8,500,000)	0.76	2.0575	1/11/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1107150 IRS USD R V 12MUSCPI	5,300,000.00	5,300,000	0.47	1	1/19/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	1,309,081.74	1,304,449	0.12	4	6/25/2048
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AMERICREDIT AUTOMOBILE RECEIVA	668,606.34	668,612	0.06	2.45	5/20/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	349,536.95	350,000	0.03	3.22	4/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	2,975,624.74	2,979,448	0.27	2.97	10/17/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AVANT LOANS FUNDING TRUST	1,249,782.89	1,250,051	0.11	3.09	6/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ARBOR REALTY COLLATERALIZED LO	781,953.12	780,000	0.07	3.30844	6/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	2,299,838.01	2,309,235	0.21	3.479	4/25/2058
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DT AUTO OWNER TRUST	1,174,528.04	1,175,576	0.11	2.84	9/15/2021
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	AT&T INC	5,970,272.52	6,000,000	0.53	0	12/6/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	1,151,429.34	1,150,000	0.10	3.15844	6/15/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SM1112341 IRS USD R F 2.77500	24,226,587.51	24,300,000	2.17	2.775	7/2/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SM1112341 IRS USD P V 03MLIBOR	(24,300,000.00)	(24,300,000)	2.17	1	7/2/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CPS AUTO TRUST	676,188.20	676,899	0.06	2.87	9/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CPS AUTO TRUST	259,446.82	260,000	0.02	3.43	7/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	6,420,248.61	6,525,610	0.57	0.75	7/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BHMS MORTGAGE TRUST	1,702,605.93	1,700,000	0.15	3.65844	7/15/2035
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	935,974.98	937,251	0.08	2.9	1/18/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	OSCAR US FUNDING TRUST	1,499,527.50	1,500,000	0.13	2.60256	8/10/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARLETTE FUNDING TRUST	1,079,070.94	1,079,230	0.10	3.2	9/15/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SECURITIZED EQUIPMENT RECEIV	397,772.84	400,000	0.04	3.76	10/11/2024
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SECURITIZED EQUIPMENT RECEIV	427,389.69	430,000	0.04	4.2	10/11/2024
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	TELUS CORP	5,986,093.98	6,000,000	0.54	0	11/1/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	145,927.86	141,994	0.01	4.21581	4/25/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	359,677.72	358,160	0.03	3.968	3/19/2046
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	1,340,486.55	1,396,754	0.12	2.68531	10/25/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NEXTGEAR FLOORPLAN MASTER OWNE	966,951.36	960,000	0.09	3.85844	4/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TACO BELL FUNDING, LLC	2,169,275.35	2,167,000	0.19	3.832	5/25/2046
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	379,043.59	369,861	0.03	4.26581	2/26/2035
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	NUTRIEN LTD	5,985,838.14	6,000,000	0.54	0	10/29/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	NORTHROP GRUMAN CORP	5,998,035.84	6,000,000	0.54	0	10/3/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	WALGREENS BOOTS	5,997,606.00	6,000,000	0.54	0	10/4/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	B A T INTL FIN	3,596,830.60	3,600,000	0.32	0	10/11/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	NASDAQ INC	5,989,569.66	6,000,000	0.54	0	10/24/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	CRH AMERICA FINANCE IN	1,999,336.66	2,000,000	0.18	0	10/3/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	DOMINION RESOURCES	5,968,062.48	6,000,000	0.53	0	12/12/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	2,509,626.76	2,510,000	0.22	2.45136	9/16/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	AMERICAN CREDIT ACCEPTANCE	349,999.90	350,000	0.03	2.92	8/12/2021
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	TRANSCANADA PIPELINES LTD	5,993,064.00	6,000,000	0.54	0	10/15/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	PRESTIGE AUTO RECEIVABLES TRUS	780,000.00	780,000	0.07	2.5275	10/15/2019
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO MORGAN STANLEY	(33,363,750.00)	(33,363,750)	2.98	2.37	11/2/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO HSBC	(61,697,500.00)	(61,697,500)	5.52	2.34	12/5/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	SPECTRA ENERGY PARTNERS	2,096,575.59	2,100,000	0.19	0	10/22/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	SPECTRA ENERGY PARTNERS	1,098,130.76	1,100,000	0.10	0	10/23/2018
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO GOLDMAN	(33,536,458.43)	(33,536,458)	3.00	2.38	11/20/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	550,000.00	550,000	0.05	4.49	6/17/2030
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUNDER STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	
MML ASSET MOMENTUM FUND	EQUITY	REGIONS FINANCIAL CORP	278,920.00	15,200	0.91	0	
MML ASSET MOMENTUM FUND	EQUITY	SVB FINANCIAL GROUP	341,913.00	1,100	1.11	0	
MML ASSET MOMENTUM FUND	EQUITY	WESTERN ALLIANCE BANCORP	278,761.00	4,900	0.91	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	19,889,019.24	20,308,679	1.78	0.125	4/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DELL INT LLC / EMC CORP	1,102,779.41	1,100,000	0.10	3.48	6/1/2019
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	816,820.02	818,067	0.07	3.26	8/25/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	18,830,073.19	19,975,270	1.68	0.125	7/15/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FANNIE MAE CAS	390,415.88	388,021	0.03	3.66581	1/25/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	129,909.97	130,170	0.01	1.48	5/26/2031
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARLETTE FUNDING TRUST	-	-	0.00	3.06	1/17/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	461,071.99	462,529	0.04	3.09	10/27/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,438,963.93	2,378,755	0.22	3.46581	6/25/2065
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FANNIE MAE CAS	193,121.98	192,605	0.02	3.56581	1/25/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	1,109,489.82	1,088,313	0.10	3.56581	7/26/2066
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SPRINGCASTLE SPV	823,281.79	826,912	0.07	3.05	4/25/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	1,034,317.81	1,018,758	0.09	4.11581	10/25/2044
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	326,977.12	328,517	0.03	3.05	12/26/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	1,883,761.08	1,900,000	0.17	2.5751	10/15/2049
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	353,488.21	363,917	0.03	2.61	3/8/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	659,709.96	680,000	0.06	2.71	11/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FANNIE MAE CAS	596,716.74	592,378	0.05	3.51581	4/25/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SPRINGLEAF FUNDING TRUST	1,825,041.62	1,830,000	0.16	2.9	11/15/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET PRIVATE EDUCATION LOAN	621,173.71	620,102	0.06	3.96581	12/26/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TRIP RAIL MASTER FUNDING LLC	250,906.63	254,817	0.02	2.709	8/15/2047
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DT AUTO OWNER TRUST	807,646.95	810,000	0.07	2.4	5/17/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	OSCAR US FUNDING TRUST	615,936.12	618,393	0.06	2.13	11/10/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	CPS AUTO TRUST	813,111.17	816,818	0.07	1.87	3/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARLETTE FUNDING TRUST	297,803.47	298,892	0.03	2.36	12/15/2024
MML INFLATION-PROTECTED & INCOME FUND	FUTURE	US 5YR NOTE (CBT) DEC18	-	500,000	0.00	0	12/31/2018
MML INFLATION-PROTECTED & INCOME FUND	FUTURE	US 2YR NOTE (CBT) DEC18	-	(13,000,000)	0.00	0	12/31/2018
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	HERTZ FLEET LEASE FUNDING LP	2,534,972.97	2,530,000	0.23	2.63256	5/10/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	2,048,571.12	2,060,000	0.18	3.54875	2/15/2023
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FANNIE MAE CAS	1,148,630.51	1,148,755	0.10	2.89581	10/25/2030
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	FIRST INVESTORS AUTO OWNER TRU	1,059,591.17	1,061,132	0.09	2.84	5/16/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	MARLETTE FUNDING TRUST	990,717.35	992,458	0.09	3.06	7/17/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	RAAC SERIES	20,212.30	20,225	0.00	2.46581	2/25/2037
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	848,790.35	892,491	0.08	2.53531	1/25/2038
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	678,536.19	680,224	0.06	2.47531	10/25/2028
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,694,002.82	1,760,000	0.15	2.48531	3/25/2044
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	952,993.76	1,007,405	0.09	2.55531	3/25/2044
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	7,238,130.31	6,498,076	0.65	2.375	1/15/2027
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	7,080,331.38	6,616,005	0.63	1.75	1/15/2028
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	SWAP GOLDMAN SACHS COC	119,000.00	119,000	0.01	0	
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	CCBRICUS4 SWBC BRC	(1,770,000.00)	(1,770,000)	0.16	0	
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	SWAP CREDIT SUISSE BOC	(950,000.00)	(950,000)	0.08	0	
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	FORWARDS MORGAN STANLEY COC	627,013.00	627,013	0.06	0	
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	1,760,561.81	1,457,425	0.16	2.125	2/15/2040
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	438,059.40	435,460	0.04	1.125	1/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	5,612,984.30	4,614,548	0.50	2.125	2/15/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	448,702.45	440,000	0.04	4.65844	1/15/2043
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	6,388,786.32	6,808,653	0.57	0.75	2/15/2042
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	FORWARDS HSBC COCLLATERAL	323,000.00	323,000	0.03	0	
MML INFLATION-PROTECTED & INCOME FUND	EQUITY	FORWARDS GOLDMAN SACHS BOC	(224,618.00)	(224,618)	0.02	0	
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	23,647,316.69	24,234,723	2.11	0.125	7/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	23,854,371.77	24,641,249	2.13	0.125	1/15/2023

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	5,377,526.57	5,918,940	0.48	0.625	2/15/2043
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	12,253,475.36	12,420,460	1.10	0.625	1/15/2024
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	8,686,855.82	8,109,675	0.78	1.375	2/15/2044
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	353,407.95	375,000	0.03	3.71581	6/25/2041
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	5,798,894.50	4,674,270	0.52	3.625	4/15/2028
MML INFLATION-PROTECTED & INCOME FUND	CASH	US DOLLAR	85,305.26	85,305	0.01	0	
MML INFLATION-PROTECTED & INCOME FUND	CASH	EURO CURRENCY	0.14	0	0.00	0	
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	8,839,404.73	6,867,571	0.79	3.875	4/15/2029
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	3,686,506.58	2,839,500	0.33	3.375	4/15/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	700,000.00	700,000	0.06	4.48	6/17/2030
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	COUNTRYWIDE ASSET BACKED CERTI	25,346.45	25,380	0.00	2.67581	9/25/2034
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	10,923,573.58	10,026,900	0.98	2.375	1/15/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	8,193,744.66	7,618,133	0.73	2	1/15/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TRAFIGURA SECURITISATION FINAN	1,328,777.73	1,330,000	0.12	3.85844	12/15/2020
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	21,356,335.74	22,355,340	1.91	0.375	7/15/2027
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	HILTON GRAND VACATIONS TRUST	107,750.97	109,752	0.01	1.77	11/25/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	185,496.16	185,828	0.02	2.05	6/20/2031
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	17,535,182.06	18,254,704	1.57	0.125	7/15/2024
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	529,833.60	530,417	0.05	3.05	5/15/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	WESTGATE RESORTS	133,686.18	134,248	0.01	2.15	12/20/2026
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	203,628.25	204,700	0.02	2.3	10/20/2031
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	499,048.70	501,162	0.04	2.8	10/20/2031
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	56,641.58	56,618	0.01	3.475	12/15/2022
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DONG FANG CONTAINER FINANCE SP	33,257.97	33,333	0.00	1.95	11/25/2039
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	19,304,106.27	20,119,673	1.73	0.25	1/15/2025
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	808,750.55	834,867	0.07	2.5	1/25/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	ALLY MASTER OWNER TRUST	1,201,469.28	1,200,000	0.11	2.72844	1/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	KENTUCKY ST HGR EDU STUDENT LO	407,090.05	406,472	0.04	3.006	12/1/2031
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	TSY INFL IX N/B	8,224,907.35	8,850,306	0.74	0.75	2/15/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	568,787.55	572,574	0.05	3.05	3/22/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SANTANDER DRIVE AUTO RECEIVABL	441,965.89	442,224	0.04	2.44	4/15/2021
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	36,948.84	37,206	0.00	2.32	4/25/2030
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	BM1047976 CDS USD R F 3.00000	396,930.93	450,000	0.04	3	11/17/2045
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	447,325.46	452,937	0.04	2.43	6/20/2032
MML INFLATION-PROTECTED & INCOME FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	1,861,042.23	1,861,331	0.17	3.2	8/25/2027
MML INFLATION-PROTECTED & INCOME FUND	CASH EQUIVALENT	REVERSE REPO PARIBAS	(58,268,750.00)	(58,268,750)	5.21	2.24	11/2/2018
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INTERNATIONAL EQUITY FUND	EQUITY	BAIDU INC SPON ADR	830,108.40	3,630	0.47	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	KUEHNE NAGEL INTL AG REG	1,509,326.27	9,535	0.86	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	EXPERIAN PLC	1,091,510.67	42,500	0.62	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	BRAMBLES LTD	299,429.58	38,000	0.17	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	VOLVO AB B SHS	2,256,479.99	127,770	1.29	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	SKF AB B SHARES	2,110,604.57	107,100	1.20	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	DANONE	1,284,418.60	16,591	0.73	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	SMITHS GROUP PLC	1,454,024.72	74,600	0.83	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	RECKITT BENCKISER GROUP PLC	950,084.67	10,400	0.54	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	BUREAU VERITAS SA	1,412,926.76	54,800	0.81	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ALIMENTATION COUCHE TARD B	755,321.49	15,100	0.43	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	CENOVUS ENERGY INC	2,218,149.65	220,900	1.26	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	GLENCORE PLC	6,287,595.58	1,458,600	3.59	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ROYAL BANK OF SCOTLAND GROUP	3,475,060.36	1,074,900	1.98	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ASML HOLDING NV	1,568,549.89	8,400	0.89	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	WPP PLC	3,246,761.60	222,100	1.85	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	LIBERTY GLOBAL PLC A	1,330,780.00	46,000	0.76	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	LIBERTY GLOBAL PLC C	3,497,472.00	124,200	1.99	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	CIE FINANCIERE RICHEMONT REG	2,388,652.69	29,340	1.36	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	CNH INDUSTRIAL NV	5,488,491.77	457,608	3.13	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	AXIS BANK LTD	2,134,793.85	251,002	1.22	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	RYANAIR HOLDINGS PLC SP ADR	2,772,674.80	28,870	1.58	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	WILLIS TOWERS WATSON PLC	3,028,659.66	21,489	1.73	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	VALEO SA	2,675,129.50	61,610	1.53	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	EXOR NV	4,115,033.86	61,400	2.35	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	FERGUSON PLC	286,132.45	3,373	0.16	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ASHTREAD GROUP PLC	2,347,299.63	73,959	1.34	0	
MML INTERNATIONAL EQUITY FUND	CASH	POUND STERLING	7,673.74	5,887	0.00	0	
MML INTERNATIONAL EQUITY FUND	CASH	CANADIAN DOLLAR	1,152.73	1,489	0.00	0	
MML INTERNATIONAL EQUITY FUND	CASH	AUSTRALIAN DOLLAR	(55,356.61)	(76,581)	0.03	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	DIAGEO PLC	1,189,922.59	33,600	0.68	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	LLOYDS BANKING GROUP PLC	7,004,759.76	9,077,200	3.99	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	INTESA SANPAOLO	6,432,522.02	2,527,400	3.67	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	CONTINENTAL AG	4,674,802.00	26,855	2.67	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	PERNOD RICARD SA	443,749.12	2,705	0.25	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	BAYER AG REG	4,370,069.92	49,194	2.49	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ALLIANZ SE REG	5,828,715.61	26,165	3.32	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	AKZO NOBEL	706,939.84	7,561	0.40	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	DAIMLER AG REGISTERED SHARES	7,735,576.48	122,800	4.41	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	THYSSENKRUPP AG	975,101.92	38,600	0.56	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	HENNES + MAURITZ AB B SHS	7,468,732.12	404,600	4.26	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ACCOR SA	1,927,546.56	37,600	1.10	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	ORICA LTD	2,233,433.74	182,167	1.27	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	KOMATSU LTD	1,874,468.38	61,600	1.07	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	OLYMPUS CORP	2,069,179.11	53,000	1.18	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	OMRON CORP	42,243.97	1,000	0.02	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	TOYOTA MOTOR CORP	3,821,773.94	61,600	2.18	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	NASPERS LTD N SHS	4,899,576.78	22,765	2.79	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	SAMSUNG ELECTRONICS CO LTD	2,037,571.93	48,650	1.16	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	TAIWAN SEMICONDUCTOR MANUFAC	2,877,457.72	337,000	1.64	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	MEGGITT PLC	813,261.00	110,238	0.46	0	
MML INTERNATIONAL EQUITY FUND	EQUITY	GRUPO TELEVIS SA SPON ADR	2,355,872.00	132,800	1.34	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML INTERNATIONAL EQUITY FUND	EQUITY	SCHRODERS PLC	3,787,022.56	94,000	2.16		0
MML INTERNATIONAL EQUITY FUND	EQUITY	BAYERISCHE MOTOREN WERKE AG	5,911,616.79	65,630	3.37		0
MML INTERNATIONAL EQUITY FUND	EQUITY	LAFARGEHOLCIM LTD REG	4,427,246.29	89,780	2.52		0
MML LARGE CAP GROWTH FUND	EQUITY	STARBUCKS CORP	2,797,153.24	49,211	2.68		0
MML LARGE CAP GROWTH FUND	EQUITY	YUM BRANDS INC	1,788,472.43	19,673	1.71		0
MML LARGE CAP GROWTH FUND	EQUITY	VISA INC CLASS A SHARES	6,706,321.38	44,682	6.43		0
MML LARGE CAP GROWTH FUND	EQUITY	DANONE SPONS ADR	2,828,130.95	182,873	2.71		0
MML LARGE CAP GROWTH FUND	EQUITY	MERCK + CO. INC.	1,124,044.30	15,845	1.08		0
MML LARGE CAP GROWTH FUND	EQUITY	FACEBOOK INC A	5,813,496.54	35,349	5.57		0
MML LARGE CAP GROWTH FUND	EQUITY	ALIBABA GROUP HOLDING SP ADR	5,656,869.84	34,334	5.42		0
MML LARGE CAP GROWTH FUND	EQUITY	MONSTER BEVERAGE CORP	3,512,885.28	60,276	3.37		0
MML LARGE CAP GROWTH FUND	EQUITY	ALPHABET INC CL C	3,197,306.13	2,679	3.07		0
MML LARGE CAP GROWTH FUND	EQUITY	ALPHABET INC CL A	3,225,317.76	2,672	3.09		0
MML LARGE CAP GROWTH FUND	EQUITY	YUM CHINA HOLDINGS INC	1,246,299.67	35,497	1.19		0
MML LARGE CAP GROWTH FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,680,403.34	1,680,403	1.61	1.1	10/1/2018
MML LARGE CAP GROWTH FUND	EQUITY	EXPEDITORS INTL WASH INC	2,966,861.97	40,349	2.84		0
MML LARGE CAP GROWTH FUND	EQUITY	AMAZON.COM INC	8,078,099.00	4,033	7.75		0
MML LARGE CAP GROWTH FUND	EQUITY	REGENERON PHARMACEUTICALS	3,684,844.80	9,120	3.53		0
MML LARGE CAP GROWTH FUND	EQUITY	CERNER CORP	2,314,959.81	35,941	2.22		0
MML LARGE CAP GROWTH FUND	EQUITY	VARIAN MEDICAL SYSTEMS INC	1,615,261.83	14,431	1.55		0
MML LARGE CAP GROWTH FUND	EQUITY	FACTSET RESEARCH SYSTEMS INC	1,797,286.14	8,034	1.72		0
MML LARGE CAP GROWTH FUND	EQUITY	SEI INVESTMENTS COMPANY	2,557,035.00	41,850	2.45		0
MML LARGE CAP GROWTH FUND	EQUITY	PROCTER + GAMBLE CO/THE	2,634,229.50	31,650	2.53		0
MML LARGE CAP GROWTH FUND	EQUITY	AMGEN INC	1,917,847.08	9,252	1.84		0
MML LARGE CAP GROWTH FUND	EQUITY	CISCO SYSTEMS INC	3,012,894.50	61,930	2.89		0
MML LARGE CAP GROWTH FUND	EQUITY	MICROSOFT CORP	3,512,188.33	30,709	3.37		0
MML LARGE CAP GROWTH FUND	EQUITY	ORACLE CORP	5,419,677.84	105,114	5.20		0
MML LARGE CAP GROWTH FUND	EQUITY	AMERICAN EXPRESS CO	1,140,933.86	10,714	1.09		0
MML LARGE CAP GROWTH FUND	EQUITY	COCA COLA CO/THE	2,474,721.63	53,577	2.37		0
MML LARGE CAP GROWTH FUND	EQUITY	UNITED PARCEL SERVICE CL B	1,030,435.50	8,826	0.99		0
MML LARGE CAP GROWTH FUND	EQUITY	DEERE + CO	2,606,872.53	17,341	2.50		0
MML LARGE CAP GROWTH FUND	EQUITY	AUTOMATIC DATA PROCESSING	1,011,832.56	6,716	0.97		0
MML LARGE CAP GROWTH FUND	EQUITY	COLGATE PALMOLIVE CO	2,104,104.60	31,428	2.02		0
MML LARGE CAP GROWTH FUND	EQUITY	SCHLUMBERGER LTD	2,640,394.64	43,342	2.53		0
MML LARGE CAP GROWTH FUND	EQUITY	QUALCOMM INC	3,275,564.25	45,475	3.14		0
MML LARGE CAP GROWTH FUND	EQUITY	NOVARTIS AG SPONSORED ADR	1,695,111.84	19,674	1.63		0
MML LARGE CAP GROWTH FUND	EQUITY	NOVO NORDISK A/S SPONS ADR	2,715,264.00	57,600	2.60		0
MML LARGE CAP GROWTH FUND	EQUITY	AUTODESK INC	4,517,667.29	28,939	4.33		0
MML MANAGED BOND FUND	FIXED INCOME	TYCO ELECTRONICS GROUP S	444,810.11	335,000	0.04	7.125	10/1/2037
MML MANAGED BOND FUND	EQUITY	CCBRCIUS4 SWBC BRC	(5,075,000.00)	(5,075,000)	0.42		0
MML MANAGED BOND FUND	EQUITY	SWAP CREDIT SUISSE BOC	(5,250,000.00)	(5,250,000)	0.44		0
MML MANAGED BOND FUND	FIXED INCOME	TIME WARNER CABLE LLC	331,714.75	325,000	0.03	8.75	2/14/2019
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91217	13,569.48	12,705	0.00	5.5	11/1/2028
MML MANAGED BOND FUND	FIXED INCOME	GENERAL ELECTRIC CO	372,206.82	298,000	0.03	6.875	1/10/2039
MML MANAGED BOND FUND	FIXED INCOME	US TREASURY N/B	3,265,171.72	3,100,000	0.27	3.5	2/15/2039
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91239	7,496.10	7,221	0.00	4.5	3/1/2029
MML MANAGED BOND FUND	FIXED INCOME	TIME WARNER CABLE LLC	76,917.01	75,000	0.01	8.25	4/1/2019
MML MANAGED BOND FUND	FIXED INCOME	USF+G CAPITAL I	1,218,304.55	885,000	0.10	8.5	12/15/2045
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 371146	111.35	105	0.00	7	9/15/2023
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 532819	146.56	128	0.00	8	3/1/2030
MML MANAGED BOND FUND	FIXED INCOME	SPRINT COMMUNICATIONS	2,894,250.00	2,550,000	0.24	9.25	4/15/2022
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 080136	899.45	882	0.00	3.125	11/20/2027

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	CASH	US DOLLAR	4,126,317.16	4,126,317	0.34	0	
MML MANAGED BOND FUND	CASH	EURO CURRENCY	0.49	0	0.00	0	
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C01135	6,203.84	5,497	0.00	7.5	2/1/2031
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 478658	2,442.18	2,180	0.00	7	5/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 602008	4,723.80	4,153	0.00	8	8/1/2031
MML MANAGED BOND FUND	FIXED INCOME	PROGRESS ENERGY INC	604,859.52	485,000	0.05	7	10/30/2031
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 597220	3,656.02	3,191	0.00	8	9/1/2031
MML MANAGED BOND FUND	FIXED INCOME	FNMA TBA 30 YR 4.5	5,364,125.00	5,200,000	0.45	4.5	10/11/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA TBA 30 YR 4	1,726,565.63	1,710,000	0.14	4	10/11/2048
MML MANAGED BOND FUND	FIXED INCOME	TRI STATE SERIES B PASS	544,160.64	480,000	0.05	7.144	7/31/2033
MML MANAGED BOND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	18,742.60	18,646	0.00	3.715432	2/25/2034
MML MANAGED BOND FUND	FIXED INCOME	COUNTRYWIDE ASSET BACKED CERTI	54,624.17	54,696	0.00	2.67581	9/25/2034
MML MANAGED BOND FUND	FIXED INCOME	ERAC USA FINANCE LLC	149,670.80	125,000	0.01	6.7	6/1/2034
MML MANAGED BOND FUND	FIXED INCOME	UNITED MEXICAN STATES	818,575.00	685,000	0.07	6.75	9/27/2034
MML MANAGED BOND FUND	FIXED INCOME	GRUPO TELEVISASAB	1,212,761.15	1,075,000	0.10	6.625	3/18/2025
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	139,090.00	140,000	0.01	6.625	6/15/2035
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL G11630	6,111.96	6,101	0.00	3.5	6/1/2019
MML MANAGED BOND FUND	FIXED INCOME	EMBARQ CORP	145,000.00	145,000	0.01	7.995	6/1/2036
MML MANAGED BOND FUND	FIXED INCOME	XCEL ENERGY INC	1,818,700.82	1,435,000	0.15	6.5	7/1/2036
MML MANAGED BOND FUND	FIXED INCOME	NEVADA POWER CO	695,229.68	550,000	0.06	6.65	4/1/2036
MML MANAGED BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	1,541,885.49	1,410,000	0.13	5.95	1/15/2027
MML MANAGED BOND FUND	FIXED INCOME	VALE OVERSEAS LIMITED	731,556.00	630,000	0.06	6.875	11/21/2036
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	5,110,883.50	5,310,000	0.43	2.48531	3/25/2044
MML MANAGED BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	1,782,577.04	1,550,000	0.15	6.11	1/29/2037
MML MANAGED BOND FUND	FIXED INCOME	KINDER MORGAN ENER PART	168,251.52	150,000	0.01	6.5	2/1/2037
MML MANAGED BOND FUND	FIXED INCOME	PACIFIC GAS + ELECTRIC	605,711.92	543,000	0.05	5.8	3/1/2037
MML MANAGED BOND FUND	FIXED INCOME	BURLINGTN NORTH SANTA FE	882,836.07	720,000	0.07	6.15	5/1/2037
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91026	45,924.72	43,000	0.00	5.5	4/1/2027
MML MANAGED BOND FUND	FIXED INCOME	KINDER MORGAN ENER PART	212,131.30	175,000	0.02	6.95	1/15/2038
MML MANAGED BOND FUND	FIXED INCOME	COMCAST CORP	636,045.72	515,000	0.05	6.95	8/15/2037
MML MANAGED BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	1,377,383.83	1,145,000	0.11	6.75	10/1/2037
MML MANAGED BOND FUND	FIXED INCOME	VIRGINIA ELEC + POWER CO	803,111.18	640,000	0.07	6.35	11/30/2037
MML MANAGED BOND FUND	FIXED INCOME	ENCANA CORP	638,758.25	545,000	0.05	6.5	2/1/2038
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91128	2,375.19	2,224	0.00	5.5	12/1/2027
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	KINDER MORGAN ENER PART	572,557.63	500,000	0.05	6.55	9/15/2040
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AD6437	569,121.13	535,073	0.05	5	6/1/2040
MML MANAGED BOND FUND	FIXED INCOME	CENOVUS ENERGY INC	620,251.48	550,000	0.05	6.75	11/15/2039
MML MANAGED BOND FUND	FIXED INCOME	ARCELORMITTAL	2,093,945.74	2,034,000	0.17	5.25	8/5/2020
MML MANAGED BOND FUND	FIXED INCOME	ENERGY TRANSFER EQUITY	1,203,750.00	1,125,000	0.10	7.5	10/15/2020
MML MANAGED BOND FUND	FIXED INCOME	PACIFIC NATIONAL FINANCE	616,847.26	610,000	0.05	4.625	9/23/2020
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	1,227,972.90	1,190,000	0.10	5.5	1/21/2021
MML MANAGED BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	63,277.38	63,074	0.01	3.349	11/15/2043
MML MANAGED BOND FUND	FIXED INCOME	NEW YORK CITY NY MUNI WTR FIN	133,198.80	105,000	0.01	5.882	6/15/2044
MML MANAGED BOND FUND	FIXED INCOME	CALIFORNIA ST	1,657,157.60	1,115,000	0.14	7.6	11/1/2040
MML MANAGED BOND FUND	FIXED INCOME	ORANGE CNTY CA LOCAL TRANSPRTN	1,776,397.50	1,350,000	0.15	6.908	2/15/2041
MML MANAGED BOND FUND	FIXED INCOME	MCKESSON CORP	605,893.72	550,000	0.05	6	3/1/2041
MML MANAGED BOND FUND	FIXED INCOME	KINDER MORGAN ENER PART	428,665.56	376,000	0.04	6.375	3/1/2041
MML MANAGED BOND FUND	FIXED INCOME	HOME DEPOT INC	746,967.01	600,000	0.06	5.95	4/1/2041
MML MANAGED BOND FUND	FIXED INCOME	WARNER MEDIA LLC	227,076.05	210,000	0.02	6.25	3/29/2041
MML MANAGED BOND FUND	FIXED INCOME	PUGET ENERGY INC	1,673,990.87	1,580,000	0.14	6.5	12/15/2020
MML MANAGED BOND FUND	FIXED INCOME	JPMORGAN CHASE + CO	1,298,567.50	1,125,000	0.11	5.6	7/15/2041
MML MANAGED BOND FUND	FIXED INCOME	NEWFIELD EXPLORATION CO	1,255,500.00	1,200,000	0.10	5.75	1/30/2022
MML MANAGED BOND FUND	FIXED INCOME	AMGEN INC	503,411.63	475,000	0.04	5.15	11/15/2041
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AD0836	88,025.48	82,420	0.01	5.5	11/1/2028
MML MANAGED BOND FUND	FIXED INCOME	NISOURCE INC	1,048,453.55	950,000	0.09	5.8	2/1/2042
MML MANAGED BOND FUND	FIXED INCOME	MARATHON PETROLEUM CORP	1,310,588.59	1,120,000	0.11	6.5	3/1/2041
MML MANAGED BOND FUND	FIXED INCOME	CVS PASS THROUGH TRUST	1,228,729.88	1,146,600	0.10	5.926	1/10/2034
MML MANAGED BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	508,830.72	488,000	0.04	4.948	1/10/2045
MML MANAGED BOND FUND	FIXED INCOME	SOUTH TEXAS HIGHER EDUCATION A	1,719,399.21	1,700,000	0.14	3.25	10/1/2046
MML MANAGED BOND FUND	FIXED INCOME	HUGHES SATELLITE SYSTEMS	1,147,500.00	1,125,000	0.10	6.5	6/15/2019
MML MANAGED BOND FUND	FIXED INCOME	UNITED MEXICAN STATES	4,516,648.50	4,727,000	0.38	4.75	3/8/2044
MML MANAGED BOND FUND	FIXED INCOME	MOLSON COORS BREWING CO	356,948.29	360,000	0.03	5	5/1/2042
MML MANAGED BOND FUND	FIXED INCOME	ERICSSON LM	3,055,544.32	3,075,000	0.25	4.125	5/15/2022
MML MANAGED BOND FUND	FIXED INCOME	KINROSS GOLD CORP	3,591,112.50	3,495,000	0.30	5.125	9/1/2021
MML MANAGED BOND FUND	FIXED INCOME	MARRIOTT VACATION CLUB OWNER T	138,282.69	138,767	0.01	2.51	5/20/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA TBA 30 YR 3	5,645,101.71	5,900,000	0.47	3	10/11/2048
MML MANAGED BOND FUND	FIXED INCOME	CENOVUS ENERGY INC	1,221,373.18	1,275,000	0.10	3	8/15/2022
MML MANAGED BOND FUND	FIXED INCOME	GENERAL ELECTRIC CO	1,275,455.45	1,430,000	0.11	4.125	10/9/2042
MML MANAGED BOND FUND	FIXED INCOME	NATIONAL OILWELL VARCO I	1,258,674.46	1,451,000	0.10	3.95	12/1/2042
MML MANAGED BOND FUND	FIXED INCOME	MGM RESORTS INTL	1,169,180.00	1,103,000	0.10	6.625	12/15/2021
MML MANAGED BOND FUND	FIXED INCOME	MYLAN INC	589,349.44	618,000	0.05	3.125	1/15/2023
MML MANAGED BOND FUND	FIXED INCOME	TEVA PHARMA FIN IV LLC	1,261,527.33	1,300,000	0.11	2.25	3/18/2020
MML MANAGED BOND FUND	EQUITY	ALLSTATE CORP	2,375,000.00	95,000	0.20	0	
MML MANAGED BOND FUND	FIXED INCOME	JOBSOHIO BEVERAGE SYS STWD LIQ	4,177,836.00	3,950,000	0.35	4.532	1/1/2035
MML MANAGED BOND FUND	FIXED INCOME	QVC INC	552,113.98	545,000	0.05	5.125	7/2/2022
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AD6996	3,789,536.60	3,574,376	0.32	5	7/1/2040
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL MA1368	271,005.97	281,063	0.02	3	3/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AT0169	258,079.02	267,656	0.02	3	3/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AB8809	81,323.78	84,342	0.01	3	3/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR2174	293,324.22	304,209	0.02	3	4/1/2043
MML MANAGED BOND FUND	FIXED INCOME	CREDIT SUISSE AG	2,188,580.00	2,050,000	0.18	6.5	8/8/2023
MML MANAGED BOND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	336,141.95	340,000	0.03	4.375	8/6/2023
MML MANAGED BOND FUND	FIXED INCOME	HILTON GRAND VACATIONS TRUST	396,797.18	399,113	0.03	2.28	1/25/2026
MML MANAGED BOND FUND	FIXED INCOME	ALLSTATE CORP	3,512,300.00	3,410,000	0.29	5.75	8/15/2053
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	639,900.00	675,000	0.05	3.5	1/30/2023
MML MANAGED BOND FUND	FIXED INCOME	ASHLAND LLC	309,550.00	302,000	0.03	6.875	5/15/2043

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	1,076,508.15	885,000	0.09	6.55	9/15/2043
MML MANAGED BOND FUND	FIXED INCOME	WELLS FARGO + COMPANY	976,569.38	909,000	0.08	5.375	11/2/2043
MML MANAGED BOND FUND	FIXED INCOME	WPP FINANCE 2010	1,232,394.13	1,205,000	0.10	5.625	11/15/2043
MML MANAGED BOND FUND	FIXED INCOME	ENERGY TRANSFER EQUITY	1,210,375.00	1,150,000	0.10	5.875	1/15/2024
MML MANAGED BOND FUND	FIXED INCOME	ARCH CAPITAL GRP US INC	1,102,023.37	1,040,000	0.09	5.144	11/1/2043
MML MANAGED BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	1,458,630.48	1,410,000	0.12	4.236	2/10/2047
MML MANAGED BOND FUND	FIXED INCOME	LEGG MASON INC	1,208,791.82	1,195,000	0.10	5.625	1/15/2044
MML MANAGED BOND FUND	FIXED INCOME	WELLS FARGO + COMPANY	734,578.56	665,000	0.06	5.606	1/15/2044
MML MANAGED BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	1,389,875.03	1,375,000	0.12	4.199	3/10/2047
MML MANAGED BOND FUND	FIXED INCOME	HSBC HOLDINGS PLC	1,218,497.10	1,225,000	0.10	4.25	3/14/2024
MML MANAGED BOND FUND	FIXED INCOME	LEAR CORP	550,042.05	535,000	0.05	5.375	3/15/2024
MML MANAGED BOND FUND	FIXED INCOME	SUNOCO LOGISTICS PARTNER	503,241.68	525,000	0.04	5.3	4/1/2044
MML MANAGED BOND FUND	FIXED INCOME	TURKIYE GARANTI BANKASI	2,938,482.40	3,010,000	0.25	4.75	10/17/2019
MML MANAGED BOND FUND	FIXED INCOME	PLAINS ALL AMER PIPELINE	607,949.30	675,000	0.05	4.7	6/15/2044
MML MANAGED BOND FUND	FIXED INCOME	GLENORE FUNDING LLC	2,379,497.45	2,365,000	0.20	4.625	4/29/2024
MML MANAGED BOND FUND	FIXED INCOME	ADT SEC CORP	4,839,083.13	4,613,000	0.40	6.25	10/15/2021
MML MANAGED BOND FUND	FIXED INCOME	TELECOM ITALIA SPA	589,118.75	605,000	0.05	5.303	5/30/2024
MML MANAGED BOND FUND	FIXED INCOME	ANTERO RESOURCES CORP	3,452,635.20	3,409,000	0.29	5.375	11/1/2021
MML MANAGED BOND FUND	FIXED INCOME	PENNSYLVANIA ELECTRIC CO	1,855,292.28	1,860,000	0.15	4.15	4/15/2025
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL U90432	487,003.74	491,574	0.04	3.5	11/1/2042
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 783896	4,775,975.17	4,779,896	0.40	3.5	5/15/2044
MML MANAGED BOND FUND	FIXED INCOME	DRUG ROYALTY II LP 1	185,365.67	186,084	0.02	3.484	7/15/2023
MML MANAGED BOND FUND	FIXED INCOME	FS INVESTMENT CORP	3,106,574.53	3,095,000	0.26	4	7/15/2019
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN INTL GROUP	1,108,944.09	1,175,000	0.09	4.5	7/16/2044
MML MANAGED BOND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	285,586.32	291,667	0.02	3.19	7/17/2029
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE	1,221,777.86	1,209,758	0.10	3.5	5/25/2025
MML MANAGED BOND FUND	FIXED INCOME	AMER AIRLN 14 1 B PTT	190,585.60	191,813	0.02	4.375	4/1/2024
MML MANAGED BOND FUND	FIXED INCOME	MORGAN STANLEY	3,472,999.18	3,500,000	0.29	4.35	9/8/2026
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN AIRLINES GROUP	8,465,826.25	8,351,000	0.71	5.5	10/1/2019
MML MANAGED BOND FUND	FIXED INCOME	CAPITAL AUTOMOTIVE REIT	866,036.16	900,000	0.07	3.66	10/15/2044
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	550,970.00	595,000	0.05	6.375	1/23/2045
MML MANAGED BOND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	1,633,955.00	1,636,000	0.14	5.375	11/15/2024
MML MANAGED BOND FUND	FIXED INCOME	CRONOS CONTAINERS PROGRAM LTD	338,505.15	344,444	0.03	3.27	11/18/2029
MML MANAGED BOND FUND	FIXED INCOME	ASSOC BANC CORP	2,975,797.82	2,991,000	0.25	4.25	1/15/2025
MML MANAGED BOND FUND	FIXED INCOME	ENTERGY LOUISIANA LLC	1,011,374.99	1,005,000	0.08	4.95	1/15/2045
MML MANAGED BOND FUND	FIXED INCOME	LENNAR CORP	3,415,425.00	3,390,000	0.28	4.5	11/15/2019
MML MANAGED BOND FUND	FIXED INCOME	ARES CAPITAL CORP	3,102,235.13	3,090,000	0.26	3.875	1/15/2020
MML MANAGED BOND FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	177,004.91	176,932	0.01	3.475	12/15/2022
MML MANAGED BOND FUND	FIXED INCOME	SPIRIT MASTER FUNDING, LLC	995,129.59	996,562	0.08	3.5014	1/20/2045
MML MANAGED BOND FUND	FIXED INCOME	DONG FANG CONTAINER FINANCE SP	83,144.91	83,333	0.01	1.95	11/25/2039
MML MANAGED BOND FUND	FIXED INCOME	BECTON DICKINSON AND CO	813,452.59	825,000	0.07	4.685	12/15/2044
MML MANAGED BOND FUND	FIXED INCOME	INGRAM MICRO INC	1,268,836.72	1,288,000	0.11	5.45	12/15/2024
MML MANAGED BOND FUND	FIXED INCOME	AFFILIATED MANAGERS GROU	1,988,264.24	2,080,000	0.17	3.5	8/1/2025
MML MANAGED BOND FUND	FIXED INCOME	PHILLIPS 66 PARTNERS LP	168,687.00	178,000	0.01	4.68	2/15/2045
MML MANAGED BOND FUND	FIXED INCOME	ALLERGAN FUNDING SCS	1,234,750.62	1,270,000	0.10	4.75	3/15/2045
MML MANAGED BOND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	1,274,823.98	1,278,000	0.11	4.862	8/21/2046
MML MANAGED BOND FUND	FIXED INCOME	XLIT LTD	3,492,159.41	3,525,000	0.29	4.45	3/31/2025
MML MANAGED BOND FUND	FIXED INCOME	LENNAR CORP	1,199,250.00	1,230,000	0.10	4.75	5/30/2025
MML MANAGED BOND FUND	FIXED INCOME	AT+T INC	1,023,474.14	1,075,000	0.09	3.4	5/15/2025
MML MANAGED BOND FUND	FIXED INCOME	AT+T INC	2,357,181.14	2,580,000	0.20	4.75	5/15/2046
MML MANAGED BOND FUND	FIXED INCOME	CROWN CASTLE TOWERS LLC	1,663,008.00	1,700,000	0.14	3.222	5/15/2042
MML MANAGED BOND FUND	FIXED INCOME	ABBVIE INC	1,018,430.03	1,060,000	0.08	4.7	5/14/2045

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	981,794.90	1,000,000	0.08	4.39415	5/10/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 534703	3,122.41	2,746	0.00	8	5/1/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 529453	2,986.18	2,638	0.00	7.5	1/1/2030
MML MANAGED BOND FUND	FIXED INCOME	WESTROCK MWV LLC	1,282,424.78	1,000,000	0.11	7.55	3/1/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 480539	468.07	421	0.00	7	4/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC	55,794.09	51,220	0.00	7	8/15/2029
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 500928	4,788.35	4,285	0.00	7	5/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 252926	178.35	157	0.00	8	12/1/2029
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 352022	5,479.64	5,140	0.00	7	11/15/2023
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 510083	1,052.51	946	0.00	7	7/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 531196	354.39	316	0.00	7.5	2/1/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 530299	391.20	356	0.00	7.5	3/1/2030
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 008746	4,584.83	4,512	0.00	3.125	11/20/2025
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 493723	2,893.12	2,575	0.00	7	8/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 253437	170.77	150	0.00	8	9/1/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 253481	106.14	93	0.00	8	10/1/2030
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C01079	1,938.61	1,713	0.00	7.5	10/1/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 575667	13,828.02	12,266	0.00	7	3/1/2031
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 535996	7,133.62	6,314	0.00	7.5	6/1/2031
MML MANAGED BOND FUND	FIXED INCOME	PANHANDLE PLAINS STUDENT FINAN	496,370.00	500,000	0.04	2.29	12/1/2031
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 190317	3,856.26	3,388	0.00	8	8/1/2031
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 596656	1,027.64	998	0.00	8	8/1/2031
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	3,893,473.92	3,950,000	0.32	5.073	12/15/2039
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	250,000.00	250,000	0.02	4.49	6/17/2030
MML MANAGED BOND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	2,779.63	2,775	0.00	4.54421	7/25/2033
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	650,000.00	650,000	0.05	5.083	9/15/2028
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC	2,374,686.47	2,221,419	0.20	5.5	10/15/2033
MML MANAGED BOND FUND	FIXED INCOME	STRUCTURED ADJUSTABLE RATE MOR	22,923.35	22,808	0.00	4.32424	3/25/2034
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	COLLEGIATE FUNDING SERVICES ED	1,307,988.77	1,324,454	0.11	2.54613	3/28/2035
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 888586	110,936.77	106,961	0.01	4.144	10/1/2034
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 725692	117,079.50	111,674	0.01	4.314	10/1/2033
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 523499	300.49	266	0.00	8	11/1/2029
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 488634	2,544.95	2,285	0.00	7	5/15/2029
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 499410	1,423.26	1,268	0.00	7	7/15/2029
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 516706	67.88	66	0.00	7	8/15/2029
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC	481,741.09	446,373	0.04	5.5	3/15/2038
MML MANAGED BOND FUND	FIXED INCOME	WILLIS NORTH AMERICA INC	585,355.65	566,000	0.05	7	9/29/2019
MML MANAGED BOND FUND	FIXED INCOME	CVS PASS THROUGH TRUST	1,170,789.38	1,007,816	0.10	7.507	1/10/2032
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE	495,629.03	469,551	0.04	5.5	5/25/2040
MML MANAGED BOND FUND	FIXED INCOME	COLLEGE LOAN CORPORATION TRUST	707,795.10	900,000	0.06	0	1/25/2047
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91344	143,518.41	143,267	0.01	3.5	11/1/2030
MML MANAGED BOND FUND	FIXED INCOME	STRUCTURED RECEIVABLES FINANCE	214,369.98	221,429	0.02	3.73	8/15/2036
MML MANAGED BOND FUND	FIXED INCOME	GSAMP TRUST	66,794.19	66,913	0.01	2.86081	4/25/2035
MML MANAGED BOND FUND	FIXED INCOME	MASTR ASSET BACKED SECURITIES	212,661.75	211,053	0.02	2.93581	3/25/2035
MML MANAGED BOND FUND	FIXED INCOME	NORTH CAROLINA STATE EDUCATION	1,606,911.20	1,600,000	0.13	3.13531	7/25/2036
MML MANAGED BOND FUND	FIXED INCOME	MORGAN STANLEY CAPITAL I TRUST	1,369,804.74	1,325,000	0.11	5.2	6/15/2044
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL D97258	15,680.73	14,682	0.00	5.5	4/1/2027
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL J13972	50,213.21	49,876	0.00	3.5	1/1/2026
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL D97417	12,270.13	11,489	0.00	5.5	10/1/2027
MML MANAGED BOND FUND	FIXED INCOME	LEIDOS HOLDINGS INC	5,730,147.50	5,665,000	0.48	4.45	12/1/2020
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AA3980	74,683.90	71,125	0.01	4.5	4/1/2028
MML MANAGED BOND FUND	FIXED INCOME	ARCELORMITTAL	1,288,072.50	1,201,000	0.11	6.25	2/25/2022
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	5,280,125.00	5,300,000	0.44	3.08531	1/25/2040
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 082488	447,145.32	431,929	0.04	3.375	3/20/2040
MML MANAGED BOND FUND	FIXED INCOME	GLENORE FINANCE CANADA	881,939.94	894,000	0.07	5.55	10/25/2042
MML MANAGED BOND FUND	FIXED INCOME	FAIRWAY OUTDOOR FUNDING LLC	1,910,819.68	1,912,048	0.16	4.212	10/15/2042
MML MANAGED BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	1,044,232.39	1,060,000	0.09	3.703	10/15/2045
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AB7401	160,860.01	166,829	0.01	3	12/1/2042
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL C91424	95,923.65	95,606	0.01	3.5	1/1/2032
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AB7397	172,038.46	178,423	0.01	3	12/1/2042
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR0306	13,289.09	13,782	0.00	3	1/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL MA1356	10,685,826.26	10,788,230	0.89	3.5	2/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AO8180	37,579.97	38,975	0.00	3	9/1/2042
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR5391	115,171.35	119,445	0.01	3	1/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AL3215	148,467.23	153,977	0.01	3	2/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR4432	58,383.61	60,550	0.00	3	3/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR4109	142,901.58	148,205	0.01	3	2/1/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AR1975	45,096.71	46,770	0.00	3	12/1/2042
MML MANAGED BOND FUND	FIXED INCOME	EDUCATIONAL FUNDING OF THE SOU	656,464.88	625,000	0.05	6.03531	4/25/2046
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,400,189.44	1,420,000	0.12	3.71581	6/25/2043
MML MANAGED BOND FUND	FIXED INCOME	HIGHER EDUCATION FUNDING	383,920.20	450,000	0.03	0	1/1/2044
MML MANAGED BOND FUND	FIXED INCOME	HIGHER EDUCATION FUNDING	395,926.65	450,000	0.03	0	1/1/2044
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AH6787	1,004,955.92	963,661	0.08	4.5	3/1/2041
MML MANAGED BOND FUND	FIXED INCOME	VALLEY NATIONAL BANCORP	1,575,107.49	1,530,000	0.13	5.125	9/27/2023
MML MANAGED BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	1,795,841.16	1,795,282	0.15	2.84581	1/25/2037
MML MANAGED BOND FUND	FIXED INCOME	DBCCRE MORTGAGE TRUST	1,020,309.82	995,000	0.09	4.2382	1/10/2034
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,966,521.50	3,000,000	0.25	2.96581	2/25/2039
MML MANAGED BOND FUND	FIXED INCOME	TURK TELEKOMUNIKASYON AS	232,880.64	240,000	0.02	3.75	6/19/2019
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC	2,188,408.83	2,217,469	0.18	3	8/15/2043
MML MANAGED BOND FUND	FIXED INCOME	SPIRE INC	1,830,453.80	1,840,000	0.15	4.7	8/15/2044

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	SOUTH CAROLINA STUDENT LOAN CO	1,811,123.82	1,800,000	0.15	3.10375	1/3/2033
MML MANAGED BOND FUND	FIXED INCOME	SOUTH CAROLINA STUDENT LOAN CO	2,977,437.15	3,050,000	0.25	3.60375	8/1/2035
MML MANAGED BOND FUND	FIXED INCOME	EL PUERTO DE LIVERPOOL	2,511,951.20	2,620,000	0.21	3.95	10/2/2024
MML MANAGED BOND FUND	FIXED INCOME	ARES FINANCE CO LLC	1,966,877.22	2,080,000	0.16	4	10/8/2024
MML MANAGED BOND FUND	FIXED INCOME	HERCULES CAPITAL FUNDING TRUST	27,188.00	27,188	0.00	3.524	4/16/2021
MML MANAGED BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	186,634.18	186,733	0.02	2.54	5/20/2027
MML MANAGED BOND FUND	FIXED INCOME	EDUCATIONAL SERVICES OF AMERIC	1,126,569.48	1,200,000	0.09	3.71581	6/25/2048
MML MANAGED BOND FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	359,413.95	365,350	0.03	2.707	2/19/2045
MML MANAGED BOND FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	1,106,837.89	1,158,235	0.09	3.26	9/15/2072
MML MANAGED BOND FUND	FIXED INCOME	EDUCATIONAL SERVICES OF AMERIC	1,042,875.68	1,100,000	0.09	3.71581	10/25/2056
MML MANAGED BOND FUND	FIXED INCOME	DRUG ROYALTY CORPORATION, INC.	27,663.50	27,692	0.00	5.8	7/15/2024
MML MANAGED BOND FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	172,492.66	176,088	0.01	2.29	7/9/2029
MML MANAGED BOND FUND	FIXED INCOME	AMTRUST FINANCIAL SERVIC	2,937,002.88	3,030,000	0.24	6.125	8/15/2023
MML MANAGED BOND FUND	FIXED INCOME	ENLINK MIDSTREAM PARTNER	1,967,542.29	2,075,000	0.16	4.15	6/1/2025
MML MANAGED BOND FUND	FIXED INCOME	CNO FINANCIAL GROUP INC	1,618,020.00	1,602,000	0.13	4.5	5/30/2020
MML MANAGED BOND FUND	FIXED INCOME	CNO FINANCIAL GROUP INC	2,373,222.50	2,321,000	0.20	5.25	5/30/2025
MML MANAGED BOND FUND	FIXED INCOME	WENDYS FUNDING LLC	1,771,607.67	1,775,100	0.15	4.08	6/15/2045
MML MANAGED BOND FUND	FIXED INCOME	WENDYS FUNDING LLC	2,140,721.67	2,134,000	0.18	4.497	6/15/2045
MML MANAGED BOND FUND	FIXED INCOME	ARCELORMITTAL	2,217,217.27	2,165,000	0.18	5.125	6/1/2020
MML MANAGED BOND FUND	FIXED INCOME	REYNOLDS AMERICAN INC	1,179,911.58	1,085,000	0.10	5.85	8/15/2045
MML MANAGED BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	853,320.62	800,000	0.07	6.125	12/15/2045
MML MANAGED BOND FUND	FIXED INCOME	BM1047877 CDS USD R F 3.00000	2,822,619.97	3,200,000	0.24	3	11/17/2045
MML MANAGED BOND FUND	FIXED INCOME	BM1047877 CDS USD P V 01MEVENT	(3,200,000.00)	(3,200,000)	0.27	1	11/17/2045
MML MANAGED BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	376,154.27	376,194	0.03	2.73	7/20/2027
MML MANAGED BOND FUND	FIXED INCOME	SPIRIT AIR 2015 1 PTT A	1,682,632.97	1,688,967	0.14	4.1	10/1/2029
MML MANAGED BOND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	1,838,089.37	1,810,000	0.15	4.5	5/15/2021
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL G60172	1,291,480.23	1,237,902	0.11	4.5	9/1/2043
MML MANAGED BOND FUND	FIXED INCOME	SBA TOWER TRUST	1,191,000.00	1,200,000	0.10	3.156	10/10/2045
MML MANAGED BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	151,601.27	153,116	0.01	3.08	9/20/2032
MML MANAGED BOND FUND	FIXED INCOME	ALLY FINANCIAL INC	3,058,776.00	3,060,000	0.26	3.25	11/5/2018
MML MANAGED BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	406,663.69	408,320	0.03	2.99	5/22/2028
MML MANAGED BOND FUND	FIXED INCOME	BLUE VIRGO	617,491.63	617,492	0.05	3	12/15/2022
MML MANAGED BOND FUND	FIXED INCOME	IPALCO ENTERPRISES INC	4,140,281.60	4,160,000	0.35	3.45	7/15/2020
MML MANAGED BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	693,804.49	695,887	0.06	3.2	1/25/2040
MML MANAGED BOND FUND	FIXED INCOME	BANK OF NOVA SCOTIA	1,295,625.37	1,295,000	0.11	4.5	12/16/2025
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN TOWER CORP	860,994.27	860,000	0.07	4.4	2/15/2026
MML MANAGED BOND FUND	FIXED INCOME	ANHEUSER BUSCH INBEV FIN	3,868,302.56	3,825,000	0.32	4.9	2/1/2046
MML MANAGED BOND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	1,251,927.50	1,238,000	0.10	5.5	2/15/2023
MML MANAGED BOND FUND	FIXED INCOME	EXPRESS SCRIPTS HOLDING	1,190,569.96	1,180,000	0.10	4.5	2/25/2026
MML MANAGED BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	421,569.38	410,204	0.04	4.21581	4/25/2040
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	572,031.31	555,407	0.05	3.96581	8/25/2036
MML MANAGED BOND FUND	FIXED INCOME	ANADARKO PETROLEUM CORP	1,479,400.11	1,258,000	0.12	6.6	3/15/2046
MML MANAGED BOND FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	1,065,711.72	1,061,215	0.09	3.968	3/19/2046
MML MANAGED BOND FUND	FIXED INCOME	TRINITY ACQUISITION PLC	442,755.79	445,000	0.04	4.4	3/15/2026
MML MANAGED BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	67,820.68	67,672	0.01	3.85844	7/15/2020
MML MANAGED BOND FUND	FIXED INCOME	AIRCATTLE LTD	1,797,321.56	1,750,000	0.15	5	4/1/2023
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,468,159.95	2,370,000	0.21	3.71581	6/25/2065
MML MANAGED BOND FUND	FIXED INCOME	ANDEAVOR LOGIS LP/CORP	669,930.00	652,000	0.06	6.25	10/15/2022
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,052,672.76	1,036,541	0.09	3.41581	6/25/2033
MML MANAGED BOND FUND	FIXED INCOME	GE CAPITAL INTL FUNDING	974,094.97	1,035,000	0.08	4.418	11/15/2035
MML MANAGED BOND FUND	FIXED INCOME	VALE OVERSEAS LIMITED	2,972,804.00	2,825,000	0.25	5.875	6/10/2021
MML MANAGED BOND FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	1,338,320.14	1,347,217	0.11	3.968	6/17/2024
MML MANAGED BOND FUND	FIXED INCOME	WESTJET AIRLINES LTD	723,040.58	735,000	0.06	3.5	6/16/2021
MML MANAGED BOND FUND	FIXED INCOME	SBA TOWER TRUST	1,179,871.44	1,200,000	0.10	2.877	7/10/2046
MML MANAGED BOND FUND	FIXED INCOME	ELARA HGV TIMESHARE ISSUER	1,317,291.64	1,346,222	0.11	2.73	4/25/2028
MML MANAGED BOND FUND	FIXED INCOME	MOLSON COORS BREWING CO	1,527,544.49	1,724,000	0.13	4.2	7/15/2046
MML MANAGED BOND FUND	FIXED INCOME	EXPRESS SCRIPTS HOLDING	1,151,667.89	1,180,000	0.10	4.8	7/15/2046
MML MANAGED BOND FUND	FIXED INCOME	HEALTHCARE TRUST OF AMER	1,179,944.26	1,265,000	0.10	3.5	8/1/2026
MML MANAGED BOND FUND	FIXED INCOME	ENLINK MIDSTREAM PARTNER	922,008.34	951,000	0.08	4.85	7/15/2026
MML MANAGED BOND FUND	FIXED INCOME	COMCAST CORP	521,871.96	645,000	0.04	3.4	7/15/2046
MML MANAGED BOND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	1,314,407.06	1,363,886	0.11	2.43	2/17/2032
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,616,484.62	2,602,906	0.22	2.91581	2/25/2070
MML MANAGED BOND FUND	FIXED INCOME	CITIGROUP INC	2,874,243.12	2,975,000	0.24	4.125	7/25/2028
MML MANAGED BOND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	3,799,207.10	4,043,000	0.32	2.2	7/21/2021
MML MANAGED BOND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	309,877.55	315,000	0.03	1.7	7/19/2019
MML MANAGED BOND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	335,361.74	460,000	0.03	4.1	10/1/2046
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE CAS	1,139,834.87	1,132,844	0.10	3.66581	1/25/2029
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	556,401.45	570,000	0.05	2.36	12/27/2032
MML MANAGED BOND FUND	FIXED INCOME	FIRST REPUBLIC BANK	4,049,177.17	4,360,000	0.34	4.375	8/1/2046
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	2,617,047.01	2,552,442	0.22	3.46581	6/25/2065
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE CAS	1,201,369.26	1,198,154	0.10	3.56581	1/25/2029
MML MANAGED BOND FUND	FIXED INCOME	WEINGARTEN REALTY INVEST	491,466.05	535,000	0.04	3.25	8/15/2026
MML MANAGED BOND FUND	FIXED INCOME	DUKE ENERGY CORP	1,085,262.73	1,235,000	0.09	3.75	9/1/2046
MML MANAGED BOND FUND	FIXED INCOME	BUNGE LTD FINANCE CORP	1,650,516.10	1,824,000	0.14	3.25	8/15/2026
MML MANAGED BOND FUND	FIXED INCOME	CONSUMER INSTALLMENT LOAN TRUS	55,907.37	55,911	0.00	3.96	7/15/2022
MML MANAGED BOND FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	3,253,133.72	3,191,041	0.27	3.56581	7/26/2066
MML MANAGED BOND FUND	FIXED INCOME	TCI SYMPHONY CLO	2,156,198.45	2,150,000	0.18	3.817	10/13/2029
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC STACR	180,393.16	180,250	0.02	3.01581	3/25/2029
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,260,258.09	1,300,000	0.11	2.34	4/25/2033
MML MANAGED BOND FUND	FIXED INCOME	VSE VOI MORTGAGE LLC	1,358,205.45	1,395,959	0.11	2.54	7/20/2033
MML MANAGED BOND FUND	FIXED INCOME	HERO FUNDING TRUST	1,251,922.17	1,297,194	0.10	3.08	9/20/2042
MML MANAGED BOND FUND	FIXED INCOME	SPRINGCASTLE SPV	962,210.60	966,453	0.08	3.05	4/25/2029
MML MANAGED BOND FUND	FIXED INCOME	MPLX LP	930,515.79	912,000	0.08	5.5	2/15/2023
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL MA2806	25,086,446.32	26,187,123	2.09	3	11/1/2046
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	2,205,330.00	2,326,076	0.18	2.54531	10/25/2040
MML MANAGED BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	2,999,521.64	2,954,397	0.25	4.11581	10/25/2044
MML MANAGED BOND FUND	FIXED INCOME	CNH INDUSTRIAL CAP LLC	3,270,826.43	3,280,000	0.27	3.875	10/15/2021
MML MANAGED BOND FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	1,010,677.55	1,040,495	0.08	2.61	3/8/2029
MML MANAGED BOND FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	10,307,872.48	10,600,000	0.86	2.8332	10/16/2051
MML MANAGED BOND FUND	FIXED INCOME	ORANGE LAKE TIMESHARE TRUST	849,289.33	871,347	0.07	2.91	3/8/2029
MML MANAGED BOND FUND	FIXED INCOME	DIAMONDBACK ENERGY INC	2,198,745.00	2,196,000	0.18	4.75	11/1/2024
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE CAS	1,650,916.33	1,638,914	0.14	3.51581	4/25/2029
MML MANAGED BOND FUND	FIXED INCOME	VELOCITY COMMERCIAL CAPITAL LO	1,228,654.92	1,237,433	0.10	2.99694	10/25/2046
MML MANAGED BOND FUND	FIXED INCOME	LAZARD GROUP LLC	1,168,521.12	1,253,000	0.10	3.625	3/1/2027
MML MANAGED BOND FUND	FIXED INCOME	JPMORGAN CHASE + CO	1,164,742.62	1,235,000	0.10	3.625	12/1/2027
MML MANAGED BOND FUND	FIXED INCOME	PLAINS ALL AMER PIPELINE	1,358,615.64	1,360,000	0.11	4.5	12/15/2026
MML MANAGED BOND FUND	FIXED INCOME	SPS SERVICER ADVANCE RECEIVABL	4,462,243.72	4,490,000	0.37	2.75	11/15/2049
MML MANAGED BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	2,454,720.15	2,515,000	0.20	4.183	11/25/2027
MML MANAGED BOND FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	2,971,799.16	3,000,000	0.25	3.1068	12/15/2050
MML MANAGED BOND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	1,381,353.58	1,285,000	0.12	6.484	10/23/2045

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	LCM LTD PARTNERSHIP	3,041,710.95	3,030,000	0.25	3.7475	10/20/2029
MML MANAGED BOND FUND	FIXED INCOME	FORD MOTOR COMPANY	472,048.90	530,000	0.04	5.291	12/8/2046
MML MANAGED BOND FUND	FIXED INCOME	TREMAN PARK CLO LTD	1,750,600.25	1,750,000	0.15	3.7175	4/20/2027
MML MANAGED BOND FUND	FIXED INCOME	LABRADOR AVIATION FINANCE LIM	2,527,880.69	2,526,250	0.21	4.3	1/15/2042
MML MANAGED BOND FUND	FIXED INCOME	NELNET PRIVATE EDUCATION LOAN	861,014.77	895,775	0.07	3.6	12/26/2040
MML MANAGED BOND FUND	FIXED INCOME	PBF HOLDING CO LLC	1,222,000.00	1,175,000	0.10	7	11/15/2023
MML MANAGED BOND FUND	FIXED INCOME	BARCLAYS PLC	1,627,698.54	1,720,000	0.14	4.337	1/10/2028
MML MANAGED BOND FUND	FIXED INCOME	CREDIT SUISSE GROUP AG	1,288,672.00	1,325,000	0.11	4.282	1/9/2028
MML MANAGED BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	1,048,006.11	1,085,000	0.09	4.2	4/15/2027
MML MANAGED BOND FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	1,208,062.50	1,275,000	0.10	5.125	5/1/2027
MML MANAGED BOND FUND	FIXED INCOME	PARK AEROSPACE HOLDINGS	4,478,850.00	4,440,000	0.37	5.25	8/15/2022
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	569,825.00	575,000	0.05	4.625	9/21/2023
MML MANAGED BOND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	460,009.83	456,757	0.04	4.45	6/20/2042
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BF0105	1,972,726.60	1,948,146	0.16	4	6/1/2056
MML MANAGED BOND FUND	FIXED INCOME	AT+T INC	645,829.02	648,000	0.05	5.25	3/1/2037
MML MANAGED BOND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	2,858,576.25	3,037,000	0.24	5	2/15/2027
MML MANAGED BOND FUND	FIXED INCOME	DISCOVER FINANCIAL SVS	1,672,810.46	1,750,000	0.14	4.1	2/9/2027
MML MANAGED BOND FUND	FIXED INCOME	MPLX LP	245,492.31	245,000	0.02	5.2	3/1/2047
MML MANAGED BOND FUND	FIXED INCOME	SUTTONPARK STRUCTURED SETTLEME	1,898,450.42	2,015,599	0.16	4.19	1/15/2071
MML MANAGED BOND FUND	FIXED INCOME	SYMPHONY CLO LTD	2,900,945.40	2,900,000	0.24	3.516	10/17/2026
MML MANAGED BOND FUND	FIXED INCOME	MVW OWNER TRUST	477,804.86	489,914	0.04	2.52	12/20/2032
MML MANAGED BOND FUND	FIXED INCOME	HELMERICH + PAYNE INTL	956,166.21	935,000	0.08	4.65	3/15/2025
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BE6461	2,256,763.17	2,271,582	0.19	3.5	1/20/2048
MML MANAGED BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	3,537,954.50	3,530,000	0.30	2.93531	1/25/2041
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL BF1120	2,405,203.55	2,420,045	0.20	3.5	1/15/2048
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BF1119	3,642,605.29	3,666,523	0.30	3.5	1/20/2048
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL AV1854	1,988,435.16	2,000,705	0.17	3.5	1/15/2048
MML MANAGED BOND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	2,317,130.94	2,405,000	0.19	3.3	1/23/2023
MML MANAGED BOND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	4,325,956.66	4,660,000	0.36	3.875	1/23/2028
MML MANAGED BOND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	7,469,116.42	7,680,000	0.62	3.29	2/25/2024
MML MANAGED BOND FUND	FIXED INCOME	DEUTSCHE BANK NY	1,763,852.95	1,805,000	0.15	3.15	1/22/2021
MML MANAGED BOND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	3,701,711.80	3,810,000	0.31	3.6	2/25/2024
MML MANAGED BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	1,800,749.72	1,805,308	0.15	3.28	2/25/2026
MML MANAGED BOND FUND	FIXED INCOME	RPM INTERNATIONAL INC	688,952.38	725,000	0.06	3.75	3/15/2027
MML MANAGED BOND FUND	FIXED INCOME	ECMC GROUP STUDENT LOAN TRUST	2,657,320.75	2,621,925	0.22	3.41581	12/27/2066
MML MANAGED BOND FUND	FIXED INCOME	ENSTAR GROUP LTD	924,033.25	920,000	0.08	4.5	3/10/2022
MML MANAGED BOND FUND	FIXED INCOME	HOST HOTELS + RESORTS LP	1,635,892.69	1,675,000	0.14	3.875	4/1/2024
MML MANAGED BOND FUND	FIXED INCOME	NEUBERGER BERMAN GRP/FIN	1,142,637.37	1,150,000	0.10	4.5	3/15/2027
MML MANAGED BOND FUND	FIXED INCOME	HUMANA INC	1,631,615.39	1,660,000	0.14	3.95	3/15/2027
MML MANAGED BOND FUND	FIXED INCOME	HUMANA INC	846,538.85	830,000	0.07	4.8	3/15/2047
MML MANAGED BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	945,326.00	950,000	0.08	3.3	5/10/2024
MML MANAGED BOND FUND	FIXED INCOME	WESTGATE RESORTS	1,158,755.47	1,172,768	0.10	3.05	12/20/2030
MML MANAGED BOND FUND	FIXED INCOME	CAPITAL AUTOMOTIVE REIT	973,434.53	985,833	0.08	4.18	4/15/2047
MML MANAGED BOND FUND	FIXED INCOME	TAL ADVANTAGE LLC	2,353,362.07	2,332,249	0.20	4.5	4/20/2042
MML MANAGED BOND FUND	FIXED INCOME	BANCO SANTANDER SA	1,700,023.25	1,800,000	0.14	4.25	4/11/2027
MML MANAGED BOND FUND	FIXED INCOME	SBA TOWER TRUST	1,892,476.75	1,930,000	0.16	3.168	4/9/2047
MML MANAGED BOND FUND	FIXED INCOME	BRE GRAND ISLANDER TIMESHARE I	902,424.38	923,800	0.08	2.94	5/25/2029
MML MANAGED BOND FUND	FIXED INCOME	HELIOS ISSUER, LLC	1,655,493.11	1,623,032	0.14	4.94	9/20/2049
MML MANAGED BOND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	1,577,954.20	1,599,429	0.13	3.85	4/15/2037
MML MANAGED BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	1,122,678.61	1,150,000	0.09	4.244	4/24/2038
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,282,500.00	1,200	0.11	0	3/25/2033
MML MANAGED BOND FUND	FIXED INCOME	GOODGREEN TRUST	1,104,086.43	1,113,901	0.09	3.74	10/15/2052

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	EVERETT POINT CLO LTD	737,477.19	737,401	0.06	3.45263	1/18/2025
MML MANAGED BOND FUND	FIXED INCOME	ICAHN ENTERPRISES/FIN	1,153,125.00	1,125,000	0.10	6.25	2/1/2022
MML MANAGED BOND FUND	FIXED INCOME	MID AMERICA APARTMENTS	1,062,351.28	1,115,000	0.09	3.6	6/1/2027
MML MANAGED BOND FUND	FIXED INCOME	SHERWIN WILLIAMS CO	673,251.85	700,000	0.06	4.5	6/1/2047
MML MANAGED BOND FUND	FIXED INCOME	ARROW ELECTRONICS INC	917,498.91	985,000	0.08	3.875	1/12/2028
MML MANAGED BOND FUND	FIXED INCOME	TRITON CONTAINER FINANCE LLC	820,172.05	842,874	0.07	3.52	6/20/2042
MML MANAGED BOND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	760,688.51	772,200	0.06	4.118	7/25/2047
MML MANAGED BOND FUND	FIXED INCOME	SABINE PASS LIQUEFACTION	1,537,565.45	1,585,000	0.13	4.2	3/15/2028
MML MANAGED BOND FUND	FIXED INCOME	EDP FINANCE BV	2,544,112.94	2,665,000	0.21	3.625	7/15/2024
MML MANAGED BOND FUND	FIXED INCOME	LENDMARK FUNDING TRUST	1,262,716.55	1,270,000	0.11	2.83	12/22/2025
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	2,281,125.00	2,370,000	0.19	6.25	12/31/2099
MML MANAGED BOND FUND	FIXED INCOME	MARBLE POINT CLO XI LTD	1,199,535.60	1,200,000	0.10	3.51263	12/18/2030
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83655	10,733,940.86	10,896,538	0.90	3.5	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83763	12,765,252.30	12,958,620	1.06	3.5	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	ANDEAVOR LOGISTICS LP	1,782,987.50	1,775,000	0.15	6.875	12/31/2099
MML MANAGED BOND FUND	FIXED INCOME	AXIS SPECIALTY FINAN PLC	2,364,789.23	2,500,000	0.20	4	12/6/2027
MML MANAGED BOND FUND	FIXED INCOME	HERO FUNDING TRUST	1,361,608.07	1,418,603	0.11	3.19	9/20/2048
MML MANAGED BOND FUND	FIXED INCOME	INFRASTRUCTURA ENERGETI	733,900.00	820,000	0.06	3.75	1/14/2028
MML MANAGED BOND FUND	FIXED INCOME	BANK OF MONTREAL	1,406,181.70	1,505,000	0.12	3.803	12/15/2032
MML MANAGED BOND FUND	FIXED INCOME	ANDEAVOR LLC	475,369.29	510,000	0.04	4.5	4/1/2048
MML MANAGED BOND FUND	OPTIONS	BM1105949 SWAPTION	3,871,882.77	66,610,000	0.32	0	12/13/2032
MML MANAGED BOND FUND	OPTIONS	BM1106210 SWAPTION	1,122,671.95	32,720,000	0.09	0	12/13/2032
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BD6940	2,559,316.35	2,576,121	0.21	3.5	12/20/2047
MML MANAGED BOND FUND	FIXED INCOME	EDLINC STUDENT LOAN FUNDING TR	3,246,469.40	3,283,038	0.27	3.35	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	IPALCO ENTERPRISES INC	1,028,133.82	1,060,000	0.09	3.7	9/1/2024
MML MANAGED BOND FUND	FIXED INCOME	CREDIT SUISSE GROUP AG	855,697.36	910,000	0.07	3.869	1/12/2029
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83886	790,117.79	802,086	0.07	3.5	1/1/2048
MML MANAGED BOND FUND	FIXED INCOME	ATHENE HOLDING LTD	4,736,892.89	5,070,000	0.40	4.125	1/12/2028
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	4,168,812.78	4,150,000	0.35	2.93581	3/25/2067
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BF0196	1,469,224.10	1,479,570	0.12	3.5	2/1/2041
MML MANAGED BOND FUND	OPTIONS	BM1107630 SWAPTION	3,814,026.67	72,340,000	0.32	0	1/31/2033
MML MANAGED BOND FUND	OPTIONS	BM1107895 SWAPTION	1,390,934.93	36,280,000	0.12	0	1/31/2033
MML MANAGED BOND FUND	FIXED INCOME	ENTERPRISE PRODUCTS OPER	1,116,024.66	1,205,000	0.09	5.375	2/15/2078
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	1,098,012.50	1,165,000	0.09	5.35	2/12/2028
MML MANAGED BOND FUND	FIXED INCOME	MPLX LP	1,126,281.93	1,195,000	0.09	4.5	4/15/2038
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL BF1214	1,769,531.32	1,780,450	0.15	3.5	2/15/2048
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83962	2,706,542.43	2,678,295	0.23	4	2/1/2048
MML MANAGED BOND FUND	FIXED INCOME	ISRAEL ELECTRIC CORP LTD	2,324,462.00	2,450,000	0.19	4.25	8/14/2028
MML MANAGED BOND FUND	FIXED INCOME	WESTERN GAS PARTNERS LP	628,304.37	655,000	0.05	4.5	3/1/2028
MML MANAGED BOND FUND	FIXED INCOME	PNMAC GMSR ISSUER TRUST	1,284,694.66	1,270,000	0.11	5.06581	2/25/2023
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BF1270	1,234,667.33	1,212,780	0.10	4	2/20/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BM3564	7,087,872.24	7,398,855	0.59	3	7/1/2047
MML MANAGED BOND FUND	FIXED INCOME	PETROLEOS MEXICANOS	597,577.50	585,000	0.05	6.5	3/13/2027
MML MANAGED BOND FUND	FIXED INCOME	TELEFONICA EMISIONES SAU	1,038,144.60	1,105,000	0.09	4.665	3/6/2038
MML MANAGED BOND FUND	FIXED INCOME	CVS HEALTH CORP	1,488,237.67	1,455,000	0.12	5.05	3/25/2048
MML MANAGED BOND FUND	FIXED INCOME	HIGH STREET FNDG TRUST I	2,999,047.50	3,075,000	0.25	4.111	2/15/2028
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,868,958.86	3,324,300	0.16	0.01	8/26/2047
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN INTL GROUP	1,508,953.20	1,525,000	0.13	4.2	4/1/2028
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN INTL GROUP	2,219,306.25	2,285,000	0.19	5.75	4/1/2048
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN INTL GROUP	496,447.39	505,000	0.04	4.75	4/1/2048
MML MANAGED BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	3,899,949.02	3,880,000	0.33	2.97581	5/25/2066
MML MANAGED BOND FUND	FIXED INCOME	CRH AMERICA FINANCE INC	1,889,382.67	1,950,000	0.16	3.95	4/4/2028
MML MANAGED BOND FUND	FIXED INCOME	AMERICAN TOWER TRUST I	1,873,373.84	1,910,000	0.16	3.652	3/23/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BJ0686	3,441,905.55	3,407,168	0.29	4	4/1/2048
MML MANAGED BOND FUND	FIXED INCOME	DOLLAR TREE INC	1,859,998.02	1,915,000	0.16	4.2	5/15/2028
MML MANAGED BOND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	432,697.20	436,485	0.04	4.01	6/22/2043
MML MANAGED BOND FUND	FUTURE	US LONG BOND(CBT) DEC18	-	(30,400,000)	0.10	0	12/19/2018
MML MANAGED BOND FUND	FUTURE	US ULTRA BOND CBT DEC18	-	55,100,000	0.26	0	12/19/2018
MML MANAGED BOND FUND	FIXED INCOME	SYNGENTA FINANCE NV	1,865,756.97	1,870,000	0.16	3.698	4/24/2020
MML MANAGED BOND FUND	FIXED INCOME	SYNGENTA FINANCE NV	2,300,886.51	2,315,000	0.19	4.441	4/24/2023
MML MANAGED BOND FUND	FUTURE	US 5YR NOTE (CBT) DEC18	-	86,500,000	0.00	0	12/31/2018
MML MANAGED BOND FUND	FUTURE	US 2YR NOTE (CBT) DEC18	-	83,200,000	0.00	0	12/31/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	1,536,830.78	1,546,125	0.13	4.116	7/25/2048
MML MANAGED BOND FUND	FIXED INCOME	CONTINENTAL RESOURCES	1,561,242.03	1,573,000	0.13	4.375	1/15/2028
MML MANAGED BOND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	2,714,907.87	2,760,000	0.23	4.14	2/15/2023
MML MANAGED BOND FUND	FIXED INCOME	LENDMARK FUNDING TRUST	1,728,184.54	1,730,000	0.14	3.81	12/21/2026
MML MANAGED BOND FUND	FIXED INCOME	VOYA FINANCIAL INC	961,200.00	1,080,000	0.08	4.7	1/23/2048
MML MANAGED BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	1,488,099.66	1,560,000	0.12	3.814	4/23/2029
MML MANAGED BOND FUND	FIXED INCOME	RRAM	2,446,533.25	2,450,000	0.20	3.42919	1/15/2030
MML MANAGED BOND FUND	FIXED INCOME	UNITED AIR 2018 1 B PTT	563,888.70	565,000	0.05	4.6	9/1/2027
MML MANAGED BOND FUND	FIXED INCOME	BARCLAYS PLC	2,074,090.24	2,085,000	0.17	3.69519	5/16/2024
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	882,598.64	880,000	0.07	2.87844	12/15/2059
MML MANAGED BOND FUND	FIXED INCOME	AMAZON.COM INC	1,812,525.56	1,840,000	0.15	4.05	8/22/2047
MML MANAGED BOND FUND	FIXED INCOME	HIGHBRIDGE LOAN MANAGEMENT LTD	1,191,357.60	1,200,000	0.10	4.2223	7/18/2031
MML MANAGED BOND FUND	FIXED INCOME	MICROCHIP TECHNOLOGY INC	979,229.23	985,000	0.08	3.922	6/1/2021
MML MANAGED BOND FUND	FUTURE	US 10YR ULTRA FUT DEC18	-	(6,000,000)	0.00	0	12/19/2018
MML MANAGED BOND FUND	FIXED INCOME	YARA INTERNATIONAL ASA	2,114,145.56	2,100,000	0.18	4.75	6/1/2028
MML MANAGED BOND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	1,664,910.09	1,665,000	0.14	3.937	7/15/2030
MML MANAGED BOND FUND	FIXED INCOME	VIVINT SOLAR FINANCING LLC	3,179,281.45	3,115,000	0.27	7.37	4/30/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL CA1952	3,402,360.61	3,295,140	0.28	4.5	6/1/2048
MML MANAGED BOND FUND	FIXED INCOME	CASTLELAKE AIRCRAFT STRUCTURED	1,674,636.64	1,679,391	0.14	4.125	6/15/2043
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL CA1951	4,467,245.03	4,422,160	0.37	4	7/1/2048
MML MANAGED BOND FUND	FIXED INCOME	HSBC HOLDINGS PLC	1,535,024.13	1,535,000	0.13	4.583	6/19/2029
MML MANAGED BOND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	3,002,984.10	3,000,000	0.25	2.87844	1/15/2037
MML MANAGED BOND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	1,404,360.94	1,410,000	0.12	4.15	6/19/2023
MML MANAGED BOND FUND	FIXED INCOME	BAYER US FINANCE II LLC	1,148,868.80	1,200,000	0.10	4.625	6/25/2038
MML MANAGED BOND FUND	FIXED INCOME	AVENTURA MALL TRUST	4,224,154.72	4,270,000	0.35	4.11232	7/5/2040
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	4,744,166.37	4,700,000	0.40	3.01581	3/25/2067
MML MANAGED BOND FUND	FIXED INCOME	EQT MIDSTREAM PARTNERS L	2,968,241.33	2,925,000	0.25	4.75	7/15/2023
MML MANAGED BOND FUND	FIXED INCOME	CROWN CASTLE TOWERS LLC	1,766,047.50	1,750,000	0.15	4.241	7/15/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL CA2039	4,507,719.51	4,458,433	0.38	4	7/1/2048
MML MANAGED BOND FUND	FIXED INCOME	MORGAN STANLEY CAPITAL I TRUST	772,976.62	760,000	0.06	4.62	7/15/2051
MML MANAGED BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	1,469,779.31	1,450,000	0.12	4.405	6/15/2051
MML MANAGED BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	408,337.08	400,000	0.03	4.556	6/15/2051
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BK7877	2,332,600.31	2,259,092	0.19	4.5	7/1/2048
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q57232	2,372,077.40	2,347,956	0.20	4	7/1/2048
MML MANAGED BOND FUND	FIXED INCOME	KINROSS GOLD CORP	911,676.00	1,020,000	0.08	4.5	7/15/2027
MML MANAGED BOND FUND	FIXED INCOME	BAYER US FINANCE II LLC	578,254.18	650,000	0.05	4.4	7/15/2044
MML MANAGED BOND FUND	FIXED INCOME	BHMS MORTGAGE TRUST	4,957,587.86	4,950,000	0.41	3.65844	7/15/2035
MML MANAGED BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	3,800,151.24	3,800,000	0.32	2.96581	9/27/2066
MML MANAGED BOND FUND	FIXED INCOME	ANTARES HOLDINGS	2,956,591.52	2,945,000	0.25	6	8/15/2023
MML MANAGED BOND FUND	FIXED INCOME	GENPACT LUXEMBOURG SARL	2,343,484.44	2,400,000	0.20	3.7	4/1/2022
MML MANAGED BOND FUND	FIXED INCOME	DISCOVER BANK	2,875,136.60	2,905,000	0.24	4.682	8/9/2028
MML MANAGED BOND FUND	FIXED INCOME	ADVOCATE HEALTH CORP	973,431.51	965,000	0.08	3.829	8/15/2028
MML MANAGED BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	1,856,102.40	1,865,498	0.15	3.7	1/21/2031
MML MANAGED BOND FUND	FIXED INCOME	CIT GROUP INC	2,105,145.00	2,100,000	0.18	4.75	2/16/2024
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	LAZARD GROUP LLC	742,592.28	755,000	0.06	4.5	9/19/2028
MML MANAGED BOND FUND	FIXED INCOME	PRUDENTIAL FINANCIAL INC	2,431,655.20	2,440,000	0.20	5.7	9/15/2048
MML MANAGED BOND FUND	FIXED INCOME	NATIONAL RETAIL PROP INC	803,888.29	810,000	0.07	4.3	10/15/2028
MML MANAGED BOND FUND	CASH EQUIVALENT	AVANGRID INC	6,248,346.50	6,250,000	0.52	0	10/2/2018
MML MANAGED BOND FUND	FIXED INCOME	AIRCASTLE LTD	970,129.49	970,000	0.08	4.4	9/25/2023
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,709,271.20	4,961,600	0.14	0.01	2/25/2048
MML MANAGED BOND FUND	CASH EQUIVALENT	MOHAWK INDUSTRIES INC	8,490,174.00	8,500,000	0.71	0	10/15/2018
MML MANAGED BOND FUND	FIXED INCOME	ING GROEP NV	2,061,534.97	2,060,000	0.17	4.1	10/2/2023
MML MANAGED BOND FUND	CASH EQUIVALENT	WALGREENS BOOTS	3,595,110.01	3,600,000	0.30	0	10/18/2018
MML MANAGED BOND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	620,000.00	620,000	0.05	1	10/18/2030
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 374440	331.94	311	0.00	7	11/15/2023
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 491089	9,492.23	8,747	0.00	7	12/15/2028
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL 581417	13,853.25	12,308	0.00	7	7/15/2032
MML MANAGED BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	708,912.37	772,585	0.06	2.62263	6/25/2041
MML MANAGED BOND FUND	FIXED INCOME	BEAR STEARNS COMMERCIAL MORTGA	466,283.33	467,438	0.04	5.513	1/12/2045
MML MANAGED BOND FUND	FIXED INCOME	FANNIE MAE	742,671.58	688,685	0.06	5.5	4/25/2037
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL 775539	47,945.05	46,077	0.00	4.179	5/1/2034
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 082462	510,714.73	493,169	0.04	3.375	1/20/2040
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AP8668	198,198.69	205,554	0.02	3	12/1/2042
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC	1,330,522.69	1,239,748	0.11	5.5	5/15/2033
MML MANAGED BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	2,160,678.45	2,166,300	0.18	2.44	6/15/2022
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	953,665.16	940,000	0.08	3.71581	10/25/2058
MML MANAGED BOND FUND	FIXED INCOME	ENTERGY NEW ORLEANS STORE RECO	475,250.59	487,913	0.04	2.67	6/1/2027
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 784026	1,635,632.50	1,640,181	0.14	3.5	12/20/2044
MML MANAGED BOND FUND	FIXED INCOME	ALTERNA FUNDING LLC	196,905.15	197,090	0.02	2.5	2/15/2024
MML MANAGED BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	146,626.75	142,505	0.01	4.11581	10/27/2031
MML MANAGED BOND FUND	FIXED INCOME	AUTORIDAD CANAL DE PANAM	1,084,125.00	1,050,000	0.09	4.95	7/29/2035
MML MANAGED BOND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	3,048,965.13	3,030,250	0.25	4.474	10/25/2045
MML MANAGED BOND FUND	FIXED INCOME	MICROSOFT CORP	2,210,269.90	2,064,000	0.18	4.45	11/3/2045
MML MANAGED BOND FUND	FIXED INCOME	ARBYS FUNDING LLC	1,853,771.08	1,847,750	0.15	4.969	10/30/2045
MML MANAGED BOND FUND	FIXED INCOME	BM1058676 CDS USD R F 3.00000	811,503.24	920,000	0.07	3	5/11/2063
MML MANAGED BOND FUND	FIXED INCOME	BM1058676 CDS USD P V 01MEVENT	(920,000.00)	(920,000)	0.08	1	5/11/2063
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AL8173	1,490,444.61	1,406,235	0.12	5	2/1/2044
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL G60485	1,197,130.51	1,148,843	0.10	4.5	10/1/2041
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AV1897	278,929.99	276,714	0.02	3.5	12/1/2028
MML MANAGED BOND FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	892,400.36	901,551	0.07	3.02	5/25/2034
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AS1304	1,591,518.39	1,578,875	0.13	3.5	12/1/2028
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q41916	1,640,674.20	1,655,548	0.14	3.5	7/1/2046
MML MANAGED BOND FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	1,426,977.13	1,394,198	0.12	4.06581	10/27/2036
MML MANAGED BOND FUND	FIXED INCOME	FIRST INVESTORS AUTO OWNER TRU	2,947,347.05	2,990,000	0.25	2.21	7/15/2022
MML MANAGED BOND FUND	FIXED INCOME	FREDDIE MAC STACR	800,167.93	790,000	0.07	3.56581	3/25/2029
MML MANAGED BOND FUND	FIXED INCOME	ALM LOAN FUNDING	2,633,540.16	2,620,000	0.22	3.81919	10/15/2028
MML MANAGED BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	3,963,100.00	4,000,000	0.33	2.99	12/15/2023
MML MANAGED BOND FUND	FIXED INCOME	PITNEY BOWES INC	2,866,018.75	3,005,000	0.24	3.625	10/1/2021
MML MANAGED BOND FUND	FIXED INCOME	APIDOS CLO	770,144.76	770,000	0.06	3.8075	10/20/2028
MML MANAGED BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	7,312,154.25	7,050,000	0.61	3.51581	3/25/2066
MML MANAGED BOND FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	1,197,921.18	1,222,340	0.10	2.72	1/25/2041
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q44275	1,374,142.69	1,387,038	0.11	3.5	11/1/2046
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q44277	398,063.71	402,561	0.03	3.5	11/1/2046
MML MANAGED BOND FUND	FIXED INCOME	PENNSYLVANIA HIGHER EDUCATION	2,771,103.90	2,735,609	0.23	3.16581	11/25/2065
MML MANAGED BOND FUND	FIXED INCOME	HERO FUNDING TRUST	1,423,146.45	1,450,275	0.12	3.57	9/20/2047
MML MANAGED BOND FUND	FIXED INCOME	ACCESS GROUP INC	2,910,080.60	2,950,000	0.24	1.699	7/1/2039

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	FIXED INCOME	CROWN CASTLE INTL CORP	765,431.51	790,000	0.06	4	3/1/2027
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	1,170,579.39	1,220,000	0.10	3.44	3/26/2040
MML MANAGED BOND FUND	FIXED INCOME	RACE POINT CLO LTD	703,255.70	700,000	0.06	3.66225	2/20/2030
MML MANAGED BOND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	3,022,155.75	3,148,502	0.25	3.5	1/25/2047
MML MANAGED BOND FUND	FIXED INCOME	FULTON FINANCIAL CORP	1,531,286.02	1,565,000	0.13	3.6	3/16/2022
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q48208	1,138,509.79	1,101,506	0.09	4.5	5/1/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL 784314	884,583.16	885,933	0.07	3.5	5/20/2043
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	933,251.72	990,000	0.08	4.21	7/25/2040
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q48869	9,613,334.91	9,300,883	0.80	4.5	6/1/2047
MML MANAGED BOND FUND	FIXED INCOME	BAIN CAPITAL CREDIT CLO, LIMIT	1,992,059.65	1,990,000	0.17	3.5975	7/20/2030
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	2,953,755.00	4,688,500	0.25	0.01	9/25/2040
MML MANAGED BOND FUND	FIXED INCOME	TRIP RAIL MASTER FUNDING LLC	798,190.44	810,000	0.07	3.736	8/15/2047
MML MANAGED BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	979,253.20	1,011,144	0.08	3.02	8/25/2042
MML MANAGED BOND FUND	FIXED INCOME	HERO FUNDING TRUST	410,383.27	419,263	0.03	3.28	9/20/2048
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BH9008	347,683.07	343,882	0.03	4	8/1/2047
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL BH9011	299,277.26	296,005	0.02	4	9/1/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BC4641	2,730,067.66	2,747,994	0.23	3.5	9/20/2047
MML MANAGED BOND FUND	FIXED INCOME	CLEAR CREEK CLO LTD	2,043,400.68	2,040,000	0.17	3.5475	10/20/2030
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL CA0620	13,743,100.07	13,592,835	1.15	4	10/1/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL AC2985	788,763.48	774,128	0.07	4	10/20/2047
MML MANAGED BOND FUND	FIXED INCOME	HERCULES CAPITAL INC	2,800,474.90	2,910,000	0.23	4.625	10/23/2022
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BC4885	4,048,999.90	4,068,548	0.34	3.5	11/20/2047
MML MANAGED BOND FUND	FIXED INCOME	STEELE CREEK CLO LTD	660,834.90	660,000	0.06	3.58919	1/15/2030
MML MANAGED BOND FUND	FIXED INCOME	WAVE 2017 1 LLC	2,445,367.13	2,431,560	0.20	6.656	11/15/2042
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q52216	3,584,227.01	3,638,521	0.30	3.5	11/1/2047
MML MANAGED BOND FUND	FIXED INCOME	NP SPE II LLC	2,242,543.76	2,260,000	0.19	4.219	10/21/2047
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83764	10,292,806.77	10,174,371	0.86	4	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL MA3287	4,433,731.22	4,539,233	0.37	3.5	2/1/2048
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL V83796	16,595,078.53	16,411,728	1.38	4	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q52834	1,534,049.82	1,517,101	0.13	4	12/1/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA POOL BF1053	1,727,347.82	1,738,007	0.14	3.5	12/15/2047
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BD3899	5,122,531.65	5,148,879	0.43	3.5	1/20/2048
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BE6487	1,153,121.66	1,160,693	0.10	3.5	1/20/2048
MML MANAGED BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	2,700,288.36	3,759,800	0.23	0.01	2/25/2042
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED BOND FUND	CASH EQUIVALENT	COMCAST CORP	7,483,653.30	7,500,000	0.62	0	10/30/2018
MML MANAGED BOND FUND	CASH EQUIVALENT	FEDEX CORPORATION	1,996,190.44	2,000,000	0.17	0	10/26/2018
MML MANAGED BOND FUND	CASH EQUIVALENT	AVANGRID INC	4,999,010.40	5,000,000	0.42	0	10/1/2018
MML MANAGED BOND FUND	FIXED INCOME	BM1058585 CDS USD R F 3.00000	2,240,454.60	2,540,000	0.19	3	5/11/2063
MML MANAGED BOND FUND	FIXED INCOME	BM1058585 CDS USD P V 01MEVENT	(2,540,000.00)	(2,540,000)	0.21	1	5/11/2063
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL CA1073	20,182,489.82	20,492,276	1.68	3.5	1/1/2048
MML MANAGED BOND FUND	FIXED INCOME	BARCLAYS COMMERCIAL MORTGAGE S	1,580,099.89	1,610,000	0.13	4.40871	8/5/2038
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL G06057	1,065,262.47	1,022,294	0.09	4.5	10/1/2040
MML MANAGED BOND FUND	FIXED INCOME	FNMA POOL AV2325	773,835.15	767,688	0.06	3.5	12/1/2028
MML MANAGED BOND FUND	FIXED INCOME	FED HM LN PC POOL Q42045	688,444.50	694,686	0.06	3.5	7/1/2046
MML MANAGED BOND FUND	FIXED INCOME	GOODGREEN TRUST	2,283,493.41	2,370,093	0.19	3.23	10/15/2052
MML MANAGED BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	1,795,012.87	1,839,664	0.15	3.08	11/20/2028
MML MANAGED BOND FUND	FIXED INCOME	GNMA II POOL BE4328	1,948,296.57	1,958,317	0.16	3.5	12/20/2047
MML MANAGED VOLATILITY FUND	EQUITY	FACEBOOK INC A	2,814,403.98	17,113	1.58	0	
MML MANAGED VOLATILITY FUND	EQUITY	DUKE ENERGY CORP	395,458.84	4,942	0.22	0	
MML MANAGED VOLATILITY FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	446,998.80	10,405	0.25	0	
MML MANAGED VOLATILITY FUND	EQUITY	EATON CORP PLC	267,128.40	3,080	0.15	0	
MML MANAGED VOLATILITY FUND	EQUITY	ABBVIE INC	1,010,114.40	10,680	0.57	0	
MML MANAGED VOLATILITY FUND	EQUITY	NORWEGIAN CRUISE LINE HOLDIN	83,503.22	1,454	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	ZOETIS INC	312,128.04	3,409	0.17	0	
MML MANAGED VOLATILITY FUND	EQUITY	L BRANDS INC	51,813.00	1,710	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	COTY INC CL A	41,812.24	3,329	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	NEWS CORP CLASS A	36,747.34	2,786	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	TWENTY FIRST CENTURY FOX A	344,092.91	7,427	0.19	0	
MML MANAGED VOLATILITY FUND	EQUITY	NEWS CORP CLASS B	10,580.80	778	0.01	0	
MML MANAGED VOLATILITY FUND	EQUITY	TWENTY FIRST CENTURY FOX B	141,996.18	3,099	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	INTERCONTINENTAL EXCHANGE IN	305,700.98	4,082	0.17	0	
MML MANAGED VOLATILITY FUND	EQUITY	TWITTER INC	131,314.44	4,614	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	ALLEGION PLC	60,410.19	667	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	AMERICAN AIRLINES GROUP INC	121,386.21	2,937	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	PERRIGO CO PLC	64,215.60	907	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	PENTAIR PLC	49,419.00	1,140	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	ARISTA NETWORKS INC	89,063.10	335	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	SYNCHRONY FINANCIAL	156,114.84	5,023	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	CITIZENS FINANCIAL GROUP	131,716.55	3,415	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	ANTHEM INC	492,741.90	1,798	0.28	0	
MML MANAGED VOLATILITY FUND	EQUITY	CROWN CASTLE INTL CORP	325,528.92	2,924	0.18	0	
MML MANAGED VOLATILITY FUND	EQUITY	L3 TECHNOLOGIES INC	116,941.00	550	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	158,732.70	1,965	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	TECHNIPFMC PLC	95,437.50	3,054	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	SBA COMMUNICATIONS CORP	130,431.56	812	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	DXC TECHNOLOGY CO	187,601.12	2,006	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	XEROX CORP	40,604.90	1,505	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	BAKER HUGHES A GE CO	99,189.56	2,932	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	BRIGHTHOUSE FINANCIAL INC	37,294.32	843	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	ANDEAVOR	150,276.50	979	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	DOWDUPONT INC	1,051,725.74	16,354	0.59	0	
MML MANAGED VOLATILITY FUND	EQUITY	TAPESTRY INC	101,997.83	2,029	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	IQVIA HOLDINGS INC	149,071.26	1,149	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	APTIV PLC	157,396.40	1,876	0.09	0	
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(265,360.00)	(6,200)	0.15	0	12/21/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	130,900.00	8,500	0.07	0	12/21/2018

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	120,960.00	6,400	0.07	0	12/21/2018
MML MANAGED VOLATILITY FUND	EQUITY	BOOKING HOLDINGS INC	672,576.00	339	0.38	0	
MML MANAGED VOLATILITY FUND	EQUITY	BROADCOM INC	755,487.26	3,062	0.42	0	
MML MANAGED VOLATILITY FUND	EQUITY	JEFFERIES FINANCIAL GROUP IN	46,928.52	2,137	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	EVERGY INC	104,622.60	1,905	0.06	0	
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	22,680.00	8,400	0.01	0	10/19/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(227,825.00)	(6,500)	0.13	0	10/19/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(337,365.00)	(6,300)	0.19	0	11/16/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	43,550.00	6,500	0.02	0	11/16/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	42,600.00	7,100	0.02	0	11/16/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(127,840.00)	(6,800)	0.07	0	10/19/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(248,745.00)	(6,900)	0.14	0	11/16/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(90,480.00)	(6,500)	0.05	0	10/12/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(88,400.00)	(6,800)	0.05	0	10/19/2018
MML MANAGED VOLATILITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,773,836.38	1,773,836	0.99	1.1	10/1/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(131,990.00)	(6,700)	0.07	0	10/5/2018
MML MANAGED VOLATILITY FUND	FIXED INCOME	SINO FOREST CORPORATION	-	359,000	0.00	5	8/1/2049
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	188,715.00	6,900	0.11	0	1/18/2019
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	19,720.00	8,500	0.01	0	10/19/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	12,240.00	7,200	0.01	0	10/19/2018
MML MANAGED VOLATILITY FUND	OPTIONS	S+P 500 INDEX	(612,680.00)	(6,800)	0.34	0	11/16/2018
MML MANAGED VOLATILITY FUND	EQUITY	TRAVELERS COS INC/THE	247,097.55	1,905	0.14	0	
MML MANAGED VOLATILITY FUND	EQUITY	UDR INC	75,523.24	1,868	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	BROADRIDGE FINANCIAL SOLUTIO	108,330.95	821	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	PEOPLE S UNITED FINANCIAL	42,098.08	2,459	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	DELTA AIR LINES INC	261,738.58	4,526	0.15	0	
MML MANAGED VOLATILITY FUND	EQUITY	MACY S INC	74,912.61	2,157	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	DISCOVER FINANCIAL SERVICES	189,672.45	2,481	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	BANK OF NEW YORK MELLON CORP	332,658.76	6,524	0.19	0	
MML MANAGED VOLATILITY FUND	EQUITY	CME GROUP INC	408,504.00	2,400	0.23	0	
MML MANAGED VOLATILITY FUND	EQUITY	CONCHO RESOURCES INC	204,532.25	1,339	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	HCP INC	87,277.12	3,316	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	ULTA BEAUTY INC	113,694.36	403	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	MSCI INC	111,768.30	630	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	INVESCO LTD	65,002.08	2,841	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	DISH NETWORK CORP A	57,680.88	1,613	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	DOLLAR TREE INC	136,840.90	1,678	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	PHILIP MORRIS INTERNATIONAL	893,189.16	10,954	0.50	0	
MML MANAGED VOLATILITY FUND	EQUITY	VISA INC CLASS A SHARES	1,889,332.92	12,588	1.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	NETAPP INC	162,417.99	1,891	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	AMERICAN WATER WORKS CO INC	110,050.47	1,251	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	ACTIVISION BLIZZARD INC	446,147.97	5,363	0.25	0	
MML MANAGED VOLATILITY FUND	EQUITY	DISCOVERY INC A	35,136.00	1,098	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	DISCOVERY INC C	71,287.80	2,410	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	EQT CORP	78,994.78	1,786	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	AMERICAN INTERNATIONAL GROUP	336,955.96	6,329	0.19	0	
MML MANAGED VOLATILITY FUND	EQUITY	INGERSOLL RAND PLC	178,615.80	1,746	0.10	0	
MML MANAGED VOLATILITY FUND	EQUITY	ACCENTURE PLC CL A	771,516.60	4,533	0.43	0	
MML MANAGED VOLATILITY FUND	EQUITY	VERISK ANALYTICS INC	131,158.40	1,088	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	MERCK + CO. INC.	1,345,022.40	18,960	0.75	0	
MML MANAGED VOLATILITY FUND	EQUITY	DOLLAR GENERAL CORP	196,302.80	1,796	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	BERKSHIRE HATHAWAY INC CL B	2,958,571.98	13,818	1.66	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	STANLEY BLACK + DECKER INC	158,594.52	1,083	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	LYONDELLBASELL INDU CL A	232,185.15	2,265	0.13	0	
MML MANAGED VOLATILITY FUND	EQUITY	E TRADE FINANCIAL CORP	97,235.84	1,856	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	NEXTERA ENERGY INC	556,767.20	3,322	0.31	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	PRUDENTIAL FINANCIAL INC	300,008.52	2,961	0.17		0
MML MANAGED VOLATILITY FUND	EQUITY	CENTENE CORP	209,207.10	1,445	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	3M CO	880,978.51	4,181	0.49		0
MML MANAGED VOLATILITY FUND	EQUITY	NOBLE ENERGY INC	106,856.94	3,426	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	YUM BRANDS INC	207,729.35	2,285	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	NETFLIX INC	1,145,960.19	3,063	0.64		0
MML MANAGED VOLATILITY FUND	EQUITY	JM SMUCKER CO/THE	80,856.68	788	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	SKYWORKS SOLUTIONS INC	117,378.74	1,294	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	CONOCOPHILLIPS	638,163.00	8,245	0.36		0
MML MANAGED VOLATILITY FUND	EQUITY	CENTERPOINT ENERGY INC	84,000.70	3,038	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	CIMAREX ENERGY CO	61,805.10	665	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	CARMAX INC	94,980.24	1,272	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	WYNN RESORTS LTD	75,727.76	596	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	COMCAST CORP CLASS A	1,146,080.06	32,366	0.64		0
MML MANAGED VOLATILITY FUND	EQUITY	NEKTAR THERAPEUTICS	69,189.60	1,135	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	ALTRIA GROUP INC	804,233.85	13,335	0.45		0
MML MANAGED VOLATILITY FUND	EQUITY	CARNIVAL CORP	183,593.83	2,879	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	INTUITIVE SURGICAL INC	458,052.00	798	0.26		0
MML MANAGED VOLATILITY FUND	EQUITY	LKQ CORP	69,008.93	2,179	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	BIOGEN INC	525,371.97	1,487	0.29		0
MML MANAGED VOLATILITY FUND	EQUITY	NRG ENERGY INC	78,764.40	2,106	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	ASSURANT INC	39,833.55	369	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	SALESFORCE.COM INC	873,392.76	5,492	0.49		0
MML MANAGED VOLATILITY FUND	EQUITY	WELLCARE HEALTH PLANS INC	111,210.03	347	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	REGIONS FINANCIAL CORP	146,084.35	7,961	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	EXTRA SPACE STORAGE INC	77,022.96	889	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	DIGITAL REALTY TRUST INC	164,895.68	1,466	0.09		0
MML MANAGED VOLATILITY FUND	EQUITY	MOLSON COORS BREWING CO B	80,134.50	1,303	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	SVB FINANCIAL GROUP	116,250.42	374	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	CF INDUSTRIES HOLDINGS INC	89,499.36	1,644	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	AMERIPRISE FINANCIAL INC	151,646.82	1,027	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	C.H. ROBINSON WORLDWIDE INC	96,940.80	990	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	UNDER ARMOUR INC CLASS A	28,456.02	1,341	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	AT+T INC	1,718,624.40	51,180	0.96		0
MML MANAGED VOLATILITY FUND	EQUITY	VIACOM INC CLASS B	84,028.64	2,489	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	CBS CORP CLASS B NON VOTING	138,282.15	2,407	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	CHIPOTLE MEXICAN GRILL INC	78,177.44	172	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	FIDELITY NATIONAL INFO SERV	254,351.24	2,332	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	CA INC	96,688.50	2,190	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	TRANSDIGM GROUP INC	127,698.90	343	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	HESS CORP	132,279.84	1,848	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	MASTERCARD INC A	1,438,283.21	6,461	0.81		0
MML MANAGED VOLATILITY FUND	EQUITY	HANESBRANDS INC	46,738.48	2,536	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	WESTERN UNION CO	61,830.64	3,244	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	IPG PHOTONICS CORP	41,202.48	264	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	VERIZON COMMUNICATIONS INC	1,554,823.58	29,122	0.87		0
MML MANAGED VOLATILITY FUND	EQUITY	KANSAS CITY SOUTHERN	83,600.64	738	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	JUNIPER NETWORKS INC	73,876.05	2,465	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	NEWFIELD EXPLORATION CO	40,506.15	1,405	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	QUANTA SERVICES INC	35,149.14	1,053	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	ILLUMINA INC	380,274.16	1,036	0.21		0
MML MANAGED VOLATILITY FUND	EQUITY	FORD MOTOR CO	256,215.75	27,699	0.14		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	XCEL ENERGY INC	170,569.73	3,613	0.10	0	
MML MANAGED VOLATILITY FUND	EQUITY	MOODY S CORP	196,627.20	1,176	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	CONSTELLATION BRANDS INC A	255,078.46	1,183	0.14	0	
MML MANAGED VOLATILITY FUND	EQUITY	NASDAQ INC	70,613.40	823	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	DAVITA INC	72,059.78	1,006	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	EXELON CORP	296,931.66	6,801	0.17	0	
MML MANAGED VOLATILITY FUND	EQUITY	FLUOR CORP	57,519.00	990	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	AETNA INC	467,569.25	2,305	0.26	0	
MML MANAGED VOLATILITY FUND	EQUITY	HARTFORD FINANCIAL SVCS GRP	126,099.04	2,524	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	ELECTRONIC ARTS INC	260,378.89	2,161	0.15	0	
MML MANAGED VOLATILITY FUND	EQUITY	AFLAC INC	257,002.20	5,460	0.14	0	
MML MANAGED VOLATILITY FUND	EQUITY	METLIFE INC	334,702.08	7,164	0.19	0	
MML MANAGED VOLATILITY FUND	EQUITY	MGM RESORTS INTERNATIONAL	98,382.75	3,525	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	SCHWAB (CHARLES) CORP	415,759.85	8,459	0.23	0	
MML MANAGED VOLATILITY FUND	EQUITY	ADOBE INC	936,726.50	3,470	0.52	0	
MML MANAGED VOLATILITY FUND	EQUITY	HORMEL FOODS CORP	75,254.00	1,910	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	MCCORMICK + CO NON VTG SHRS	111,855.75	849	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	UNITEDHEALTH GROUP INC	1,801,622.88	6,772	1.01	0	
MML MANAGED VOLATILITY FUND	EQUITY	AUTODESK INC	242,438.83	1,553	0.14	0	
MML MANAGED VOLATILITY FUND	EQUITY	JACOBS ENGINEERING GROUP INC	64,872.00	848	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	LABORATORY CRP OF AMER HLDGS	125,223.28	721	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	CAMPBELL SOUP CO	49,120.83	1,341	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	PARKER HANNIFIN CORP	172,526.34	938	0.10	0	
MML MANAGED VOLATILITY FUND	EQUITY	VF CORP	215,776.05	2,309	0.12	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	DENTSPLY SIRONA INC	60,384.00	1,600	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	UNDER ARMOUR INC CLASS C	25,142.32	1,292	0.01		0
MML MANAGED VOLATILITY FUND	EQUITY	S+P GLOBAL INC	346,035.69	1,771	0.19		0
MML MANAGED VOLATILITY FUND	EQUITY	CHARTER COMMUNICATIONS INC A	425,273.40	1,305	0.24		0
MML MANAGED VOLATILITY FUND	EQUITY	FORTIVE CORP W/D	182,882.40	2,172	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	HARLEY DAVIDSON INC	52,955.70	1,169	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	INTERPUBLIC GROUP OF COS INC	62,137.79	2,717	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	KROGER CO	167,935.59	5,769	0.09		0
MML MANAGED VOLATILITY FUND	EQUITY	PEPSICO INC	1,117,329.20	9,994	0.63		0
MML MANAGED VOLATILITY FUND	EQUITY	UNITED PARCEL SERVICE CL B	567,054.75	4,857	0.32		0
MML MANAGED VOLATILITY FUND	EQUITY	SHERWIN WILLIAMS CO/THE	265,387.43	583	0.15		0
MML MANAGED VOLATILITY FUND	EQUITY	NEWELL BRANDS INC	70,420.70	3,469	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	SNAP ON INC	73,072.80	398	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	ANADARKO PETROLEUM CORP	244,630.89	3,629	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	DEERE + CO	343,203.39	2,283	0.19		0
MML MANAGED VOLATILITY FUND	EQUITY	KIMCO REALTY CORP	49,282.56	2,944	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	TIFFANY + CO	92,729.43	719	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	VORNADO REALTY TRUST	89,060.00	1,220	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	ZIONS BANCORP NA	68,354.45	1,363	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	AVALONBAY COMMUNITIES INC	176,621.25	975	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	BOSTON PROPERTIES INC	133,921.92	1,088	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	EQUITY RESIDENTIAL	172,010.96	2,596	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	HOST HOTELS + RESORTS INC	110,226.40	5,224	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	SL GREEN REALTY CORP	60,761.19	623	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	DUKE REALTY CORP	71,237.07	2,511	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	PUBLIC STORAGE	212,921.28	1,056	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	SIMON PROPERTY GROUP INC	385,845.25	2,183	0.22		0
MML MANAGED VOLATILITY FUND	EQUITY	AIR PRODUCTS + CHEMICALS INC	258,092.25	1,545	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	AUTOMATIC DATA PROCESSING	467,648.64	3,104	0.26		0
MML MANAGED VOLATILITY FUND	EQUITY	CIGNA CORP	356,940.50	1,714	0.20		0
MML MANAGED VOLATILITY FUND	EQUITY	CATERPILLAR INC	642,135.39	4,211	0.36		0
MML MANAGED VOLATILITY FUND	EQUITY	COLGATE PALMOLIVE CO	411,742.50	6,150	0.23		0
MML MANAGED VOLATILITY FUND	EQUITY	ECOLAB INC	286,907.40	1,830	0.16		0
MML MANAGED VOLATILITY FUND	EQUITY	GENERAL MILLS INC	179,577.28	4,184	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	GOLDMAN SACHS GROUP INC	555,218.24	2,476	0.31		0
MML MANAGED VOLATILITY FUND	EQUITY	PAYCHEX INC	165,933.45	2,253	0.09		0
MML MANAGED VOLATILITY FUND	EQUITY	ROSS STORES INC	264,696.10	2,671	0.15		0
MML MANAGED VOLATILITY FUND	EQUITY	SCHLUMBERGER LTD	594,457.36	9,758	0.33		0
MML MANAGED VOLATILITY FUND	EQUITY	ADVANCED MICRO DEVICES	179,285.56	5,804	0.10		0
MML MANAGED VOLATILITY FUND	EQUITY	AUTOZONE INC	145,055.90	187	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	AVERY DENNISON CORP	67,177.00	620	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	BOEING CO/THE	1,435,162.10	3,859	0.80		0
MML MANAGED VOLATILITY FUND	EQUITY	CORNING INC	207,917.00	5,890	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	DOVER CORP	97,737.12	1,104	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	EQUIFAX INC	111,376.21	853	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	FEDEX CORP	416,807.49	1,731	0.23		0
MML MANAGED VOLATILITY FUND	EQUITY	FISERV INC	239,396.28	2,906	0.13		0
MML MANAGED VOLATILITY FUND	EQUITY	HALLIBURTON CO	250,232.22	6,174	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	HERSHEY CO/THE	100,266.00	983	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	KLA TENCOR CORP	111,474.16	1,096	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	KOHL'S CORP	88,267.20	1,184	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	PPG INDUSTRIES INC	191,195.76	1,752	0.11		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	QUALCOMM INC	718,571.28	9,976	0.40	0	
MML MANAGED VOLATILITY FUND	EQUITY	ROCKWELL AUTOMATION INC	167,642.88	894	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	SOUTHWEST AIRLINES CO	235,561.40	3,772	0.13	0	
MML MANAGED VOLATILITY FUND	EQUITY	SUNTRUST BANKS INC	218,804.04	3,276	0.12	0	
MML MANAGED VOLATILITY FUND	EQUITY	TJX COMPANIES INC	495,240.42	4,421	0.28	0	
MML MANAGED VOLATILITY FUND	EQUITY	VULCAN MATERIALS CO	103,638.40	932	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	WEYERHAEUSER CO	173,709.41	5,383	0.10	0	
MML MANAGED VOLATILITY FUND	EQUITY	WILLIAMS COS INC	227,226.83	8,357	0.13	0	
MML MANAGED VOLATILITY FUND	EQUITY	XILINX INC	143,023.28	1,784	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	VERISIGN INC	107,920.88	674	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	AGILENT TECHNOLOGIES INC	158,856.08	2,252	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	PACCAR INC	168,838.44	2,476	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	MICROCHIP TECHNOLOGY INC	130,517.14	1,654	0.07	0	
MML MANAGED VOLATILITY FUND	EQUITY	NATIONAL OILWELL VARCO INC	115,842.12	2,689	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	STARBUCKS CORP	552,769.00	9,725	0.31	0	
MML MANAGED VOLATILITY FUND	EQUITY	RAYMOND JAMES FINANCIAL INC	83,673.45	909	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	LEGGETT + PLATT INC	40,286.80	920	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	AMGEN INC	972,811.97	4,693	0.54	0	
MML MANAGED VOLATILITY FUND	EQUITY	APPLE INC	7,339,033.14	32,511	4.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	BEST BUY CO INC	137,848.32	1,737	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	BOSTON SCIENTIFIC CORP	374,181.50	9,719	0.21	0	
MML MANAGED VOLATILITY FUND	EQUITY	CVS HEALTH CORP	563,792.64	7,162	0.32	0	
MML MANAGED VOLATILITY FUND	EQUITY	CAPITAL ONE FINANCIAL CORP	325,420.04	3,428	0.18	0	
MML MANAGED VOLATILITY FUND	EQUITY	CISCO SYSTEMS INC	1,581,270.95	32,503	0.89	0	
MML MANAGED VOLATILITY FUND	EQUITY	WALT DISNEY CO/THE	1,225,297.32	10,478	0.69	0	
MML MANAGED VOLATILITY FUND	EQUITY	EXXON MOBIL CORP	2,567,093.88	30,194	1.44	0	
MML MANAGED VOLATILITY FUND	EQUITY	GAP INC/THE	44,198.20	1,532	0.02	0	
MML MANAGED VOLATILITY FUND	EQUITY	GENERAL ELECTRIC CO	690,880.26	61,194	0.39	0	
MML MANAGED VOLATILITY FUND	EQUITY	HOME DEPOT INC	1,683,093.75	8,125	0.94	0	
MML MANAGED VOLATILITY FUND	EQUITY	MICROSOFT CORP	6,192,792.39	54,147	3.47	0	
MML MANAGED VOLATILITY FUND	EQUITY	MICRON TECHNOLOGY INC	369,574.33	8,171	0.21	0	
MML MANAGED VOLATILITY FUND	EQUITY	MORGAN STANLEY	447,258.28	9,604	0.25	0	
MML MANAGED VOLATILITY FUND	EQUITY	OMNICOM GROUP	109,036.06	1,603	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	ORACLE CORP	1,039,088.68	20,153	0.58	0	
MML MANAGED VOLATILITY FUND	EQUITY	PFIZER INC	1,816,873.89	41,227	1.02	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	EDWARDS LIFESCIENCES CORP	258,538.50	1,485	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	ABBOTT LABORATORIES	906,289.44	12,354	0.51		0
MML MANAGED VOLATILITY FUND	EQUITY	BRISTOL MYERS SQUIBB CO	715,161.60	11,520	0.40		0
MML MANAGED VOLATILITY FUND	EQUITY	ILLINOIS TOOL WORKS	302,984.64	2,147	0.17		0
MML MANAGED VOLATILITY FUND	EQUITY	LOWE S COS INC	664,692.98	5,789	0.37		0
MML MANAGED VOLATILITY FUND	EQUITY	MARSH + MCLENNAN COS	295,806.72	3,576	0.17		0
MML MANAGED VOLATILITY FUND	EQUITY	MATTEL INC	38,072.50	2,425	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	NUCOR CORP	142,064.55	2,239	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	SYSCO CORP	247,292.00	3,376	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	TEXAS INSTRUMENTS INC	740,086.42	6,898	0.41		0
MML MANAGED VOLATILITY FUND	EQUITY	TEXTRON INC	128,931.88	1,804	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	CADENCE DESIGN SYS INC	90,005.52	1,986	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	COSTCO WHOLESALE CORP	725,779.20	3,090	0.41		0
MML MANAGED VOLATILITY FUND	EQUITY	INTEL CORP	1,553,050.89	32,841	0.87		0
MML MANAGED VOLATILITY FUND	EQUITY	JOHNSON + JOHNSON	2,611,827.51	18,903	1.46		0
MML MANAGED VOLATILITY FUND	EQUITY	ELI LILLY + CO	722,303.61	6,731	0.40		0
MML MANAGED VOLATILITY FUND	EQUITY	MCDONALD S CORP	925,782.86	5,534	0.52		0
MML MANAGED VOLATILITY FUND	EQUITY	STATE STREET CORP	215,733.50	2,575	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	SYNOPSYS INC	103,441.89	1,049	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	TARGET CORP	331,316.76	3,756	0.19		0
MML MANAGED VOLATILITY FUND	EQUITY	UNITED TECHNOLOGIES CORP	733,023.83	5,243	0.41		0
MML MANAGED VOLATILITY FUND	EQUITY	WASTE MANAGEMENT INC	253,279.08	2,803	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	WHIRLPOOL CORP	53,912.50	454	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	AMERICAN EXPRESS CO	535,857.68	5,032	0.30		0
MML MANAGED VOLATILITY FUND	EQUITY	COCA COLA CO/THE	1,246,668.10	26,990	0.70		0
MML MANAGED VOLATILITY FUND	EQUITY	MARRIOTT INTERNATIONAL CL A	275,810.67	2,089	0.15		0
MML MANAGED VOLATILITY FUND	EQUITY	NIKE INC CL B	766,038.24	9,042	0.43		0
MML MANAGED VOLATILITY FUND	EQUITY	ANALOG DEVICES INC	241,597.98	2,613	0.14		0
MML MANAGED VOLATILITY FUND	EQUITY	CARDINAL HEALTH INC	118,206.00	2,189	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	P G + E CORP	167,430.39	3,639	0.09		0
MML MANAGED VOLATILITY FUND	EQUITY	PPL CORP	143,959.20	4,920	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	PIONEER NATURAL RESOURCES CO	209,202.19	1,201	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	PUBLIC SERVICE ENTERPRISE GP	189,410.52	3,588	0.11		0
MML MANAGED VOLATILITY FUND	EQUITY	PULTEGROUP INC	46,245.59	1,867	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	SCANA CORP	37,723.30	970	0.02		0
MML MANAGED VOLATILITY FUND	EQUITY	THERMO FISHER SCIENTIFIC INC	691,966.80	2,835	0.39		0
MML MANAGED VOLATILITY FUND	EQUITY	MARATHON OIL CORP	139,866.24	6,008	0.08		0
MML MANAGED VOLATILITY FUND	EQUITY	UNION PACIFIC CORP	851,438.07	5,229	0.48		0
MML MANAGED VOLATILITY FUND	EQUITY	UNITED RENTALS INC	96,360.40	589	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	VALERO ENERGY CORP	345,345.00	3,036	0.19		0
MML MANAGED VOLATILITY FUND	EQUITY	COPART INC	73,224.13	1,421	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	HOLOGIC INC	78,722.58	1,921	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	HUNT (JB) TRANSPRT SVCS INC	71,007.18	597	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	QUEST DIAGNOSTICS INC	102,946.14	954	0.06		0
MML MANAGED VOLATILITY FUND	EQUITY	REGENERON PHARMACEUTICALS	220,201.80	545	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	HENRY SCHEIN INC	90,982.10	1,070	0.05		0
MML MANAGED VOLATILITY FUND	EQUITY	TRACTOR SUPPLY COMPANY	76,884.48	846	0.04		0
MML MANAGED VOLATILITY FUND	EQUITY	ABIOMED INC	133,575.75	297	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	AFFILIATED MANAGERS GROUP	52,363.76	383	0.03		0
MML MANAGED VOLATILITY FUND	EQUITY	ALEXION PHARMACEUTICALS INC	217,828.67	1,567	0.12		0
MML MANAGED VOLATILITY FUND	EQUITY	AMETEK INC	128,965.60	1,630	0.07		0
MML MANAGED VOLATILITY FUND	EQUITY	ANSYS INC	110,514.56	592	0.06		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	APPLIED MATERIALS INC	274,183.10	7,094	0.15	0	
MML MANAGED VOLATILITY FUND	EQUITY	CABOT OIL + GAS CORP	71,636.12	3,181	0.04	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	
MML ASSET MOMENTUM FUND	EQUITY	REGIONS FINANCIAL CORP	278,920.00	15,200	0.91	0	
MML ASSET MOMENTUM FUND	EQUITY	SVB FINANCIAL GROUP	341,913.00	1,100	1.11	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	FASTENAL CO	117,432.48	2,024	0.07	0	
MML MANAGED VOLATILITY FUND	CASH	CANADIAN DOLLAR	26,462.75	34,181	0.01	0	
MML MANAGED VOLATILITY FUND	EQUITY	EBAY INC	214,993.22	6,511	0.12	0	
MML MANAGED VOLATILITY FUND	EQUITY	BROWN FORMAN CORP CLASS B	68,798.55	1,361	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	ALLIANT ENERGY CORP	69,389.10	1,630	0.04	0	
MML MANAGED VOLATILITY FUND	EQUITY	BORGWARNER INC	59,079.18	1,381	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	EOG RESOURCES INC	520,485.60	4,080	0.29	0	
MML MANAGED VOLATILITY FUND	EQUITY	EDISON INTERNATIONAL	155,799.36	2,302	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	LINCOLN NATIONAL CORP	103,249.16	1,526	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	LOEWS CORP	92,825.04	1,848	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	NISOURCE INC	87,045.56	3,493	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	ONEOK INC	196,387.63	2,897	0.11	0	
MML MANAGED VOLATILITY FUND	EQUITY	PINNACLE WEST CAPITAL	62,235.48	786	0.03	0	
MML MANAGED VOLATILITY FUND	EQUITY	SOUTHERN CO/THE	310,955.20	7,132	0.17	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MANAGED VOLATILITY FUND	EQUITY	OCCIDENTAL PETROLEUM CORP	443,471.49	5,397	0.25	0	
MML MANAGED VOLATILITY FUND	EQUITY	TOTAL SYSTEM SERVICES INC	115,328.32	1,168	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	VENTAS INC	136,548.18	2,511	0.08	0	
MML MANAGED VOLATILITY FUND	EQUITY	RED HAT INC	171,167.68	1,256	0.10	0	
MML MANAGED VOLATILITY FUND	EQUITY	GARTNER INC	101,915.50	643	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	F5 NETWORKS INC	85,950.02	431	0.05	0	
MML MANAGED VOLATILITY FUND	EQUITY	INTUIT INC	426,375.00	1,875	0.24	0	
MML MANAGED VOLATILITY FUND	EQUITY	HUNTINGTON BANCSHARES INC	116,062.68	7,779	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	STRYKER CORP	402,267.52	2,264	0.23	0	
MML MANAGED VOLATILITY FUND	EQUITY	ESTEE LAUDER COMPANIES CL A	229,314.96	1,578	0.13	0	
MML MANAGED VOLATILITY FUND	EQUITY	CITRIX SYSTEMS INC	100,822.12	907	0.06	0	
MML MANAGED VOLATILITY FUND	EQUITY	NORTHERN TRUST CORP	152,071.57	1,489	0.09	0	
MML MANAGED VOLATILITY FUND	EQUITY	NORDSTROM INC	49,462.87	827	0.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MID CAP GROWTH FUND	EQUITY	TABLEAU SOFTWARE INC CL A	3,016,980.00	27,000	0.62		0
MML MID CAP GROWTH FUND	EQUITY	HD SUPPLY HOLDINGS INC	3,851,100.00	90,000	0.79		0
MML MID CAP GROWTH FUND	EQUITY	SPROUTS FARMERS MARKET INC	2,275,030.00	83,000	0.46		0
MML MID CAP GROWTH FUND	EQUITY	BURLINGTON STORES INC	3,421,320.00	21,000	0.70		0
MML MID CAP GROWTH FUND	EQUITY	ALLEGION PLC	4,166,220.00	46,000	0.85		0
MML MID CAP GROWTH FUND	EQUITY	ARAMARK	3,871,800.00	90,000	0.79		0
MML MID CAP GROWTH FUND	EQUITY	FIDELITY NATIONAL FINANCIAL	5,036,800.00	128,000	1.03		0
MML MID CAP GROWTH FUND	EQUITY	SERVICEMASTER GLOBAL HOLDING	3,767,764.23	60,741	0.77		0
MML MID CAP GROWTH FUND	EQUITY	MICHAELS COS INC/THE	973,800.00	60,000	0.20		0
MML MID CAP GROWTH FUND	EQUITY	SAGE THERAPEUTICS INC	851,031.25	6,025	0.17		0
MML MID CAP GROWTH FUND	EQUITY	CATALENT INC	5,238,250.00	115,000	1.07		0
MML MID CAP GROWTH FUND	EQUITY	CDK GLOBAL INC	2,314,720.00	37,000	0.47		0
MML MID CAP GROWTH FUND	EQUITY	KEYSIGHT TECHNOLOGIES IN	8,483,840.00	128,000	1.73		0
MML MID CAP GROWTH FUND	EQUITY	WEWORK COMPANIES, INC CLASS A	576,145.36	8,764	0.12		0
MML MID CAP GROWTH FUND	EQUITY	WEWORK INC SER D 1 CVT PRF STK	1,459,230.78	22,197	0.30		0
MML MID CAP GROWTH FUND	EQUITY	WEWORK INC SER D 2 CVT	1,146,505.60	17,440	0.23		0
MML MID CAP GROWTH FUND	EQUITY	ZILLOW GROUP INC A	309,400.00	7,000	0.06		0
MML MID CAP GROWTH FUND	EQUITY	SHOPIFY INC CLASS A	822,300.00	5,000	0.17		0
MML MID CAP GROWTH FUND	EQUITY	BWX TECHNOLOGIES INC	2,376,520.00	38,000	0.49		0
MML MID CAP GROWTH FUND	EQUITY	TRANSUNION	4,401,923.50	59,825	0.90		0
MML MID CAP GROWTH FUND	EQUITY	ZILLOW GROUP INC C	1,017,750.00	23,000	0.21		0
MML MID CAP GROWTH FUND	EQUITY	ATLASSIAN CORP PLC CLASS A	3,557,180.00	37,000	0.73		0
MML MID CAP GROWTH FUND	EQUITY	FERRARI NV	684,550.00	5,000	0.14		0
MML MID CAP GROWTH FUND	EQUITY	WILLIS TOWERS WATSON PLC	6,517,629.36	46,244	1.33		0
MML MID CAP GROWTH FUND	EQUITY	DENTSPLY SIRONA INC	566,100.00	15,000	0.12		0
MML MID CAP GROWTH FUND	EQUITY	FORTIVE CORP W/D	4,715,200.00	56,000	0.96		0
MML MID CAP GROWTH FUND	EQUITY	WASTE CONNECTIONS INC	4,387,350.00	55,000	0.90		0
MML MID CAP GROWTH FUND	EQUITY	VERISK ANALYTICS INC	5,424,750.00	45,000	1.11		0
MML MID CAP GROWTH FUND	EQUITY	DOLLAR GENERAL CORP	6,558,000.00	60,000	1.34		0
MML MID CAP GROWTH FUND	EQUITY	KAR AUCTION SERVICES INC	3,581,400.00	60,000	0.73		0
MML MID CAP GROWTH FUND	EQUITY	SS+C TECHNOLOGIES HOLDINGS	2,330,030.00	41,000	0.48		0
MML MID CAP GROWTH FUND	EQUITY	CORELOGIC INC	4,298,670.00	87,000	0.88		0
MML MID CAP GROWTH FUND	EQUITY	CBOE GLOBAL MARKETS INC	3,550,520.00	37,000	0.72		0
MML MID CAP GROWTH FUND	EQUITY	VISTEON CORP	1,393,500.00	15,000	0.28		0
MML MID CAP GROWTH FUND	EQUITY	UNITED CONTINENTAL HOLDINGS	3,295,220.00	37,000	0.67		0
MML MID CAP GROWTH FUND	EQUITY	FLEETCOR TECHNOLOGIES INC	4,101,120.00	18,000	0.84		0
MML MID CAP GROWTH FUND	EQUITY	O REILLY AUTOMOTIVE INC	2,431,240.00	7,000	0.50		0
MML MID CAP GROWTH FUND	EQUITY	ARC RESOURCES LTD	869,585.41	78,000	0.18		0
MML MID CAP GROWTH FUND	EQUITY	DUNKIN BRANDS GROUP INC	2,801,360.00	38,000	0.57		0
MML MID CAP GROWTH FUND	EQUITY	ALKERMES PLC	3,819,600.00	90,000	0.78		0
MML MID CAP GROWTH FUND	EQUITY	XYLEM INC	4,472,720.00	56,000	0.91		0
MML MID CAP GROWTH FUND	EQUITY	ACADIA HEALTHCARE CO INC	1,936,000.00	55,000	0.40		0
MML MID CAP GROWTH FUND	EQUITY	EXPEDIA GROUP INC	1,826,720.00	14,000	0.37		0
MML MID CAP GROWTH FUND	EQUITY	GUIDEWIRE SOFTWARE INC	1,010,100.00	10,000	0.21		0
MML MID CAP GROWTH FUND	EQUITY	SPLUNK INC	1,330,010.00	11,000	0.27		0
MML MID CAP GROWTH FUND	EQUITY	ROPER TECHNOLOGIES INC	6,812,830.00	23,000	1.39		0
MML MID CAP GROWTH FUND	EQUITY	ALASKA AIR GROUP INC	1,308,340.00	19,000	0.27		0
MML MID CAP GROWTH FUND	EQUITY	COHERENT INC	1,894,090.00	11,000	0.39		0
MML MID CAP GROWTH FUND	EQUITY	IHS MARKIT LTD	3,021,760.00	56,000	0.62		0
MML MID CAP GROWTH FUND	EQUITY	VALVOLINE INC	3,377,070.00	157,000	0.69		0
MML MID CAP GROWTH FUND	EQUITY	CENTENNIAL RESOURCE DEVELO A	1,616,900.00	74,000	0.33		0
MML MID CAP GROWTH FUND	EQUITY	ENVISION HEALTHCARE CORP	2,423,690.00	53,000	0.49		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MID CAP GROWTH FUND	EQUITY	L3 TECHNOLOGIES INC	1,675,870.84	7,882	0.34	0	
MML MID CAP GROWTH FUND	EQUITY	HILTON WORLDWIDE HOLDINGS IN	3,069,640.00	38,000	0.63	0	
MML MID CAP GROWTH FUND	EQUITY	ARDAGH GROUP SA	100,140.00	6,000	0.02	0	
MML MID CAP GROWTH FUND	EQUITY	GARDNER DENVER HOLDINGS INC	2,834,000.00	100,000	0.58	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MID CAP GROWTH FUND	EQUITY	INCYTE CORP	2,072,400.00	30,000	0.42		0
MML MID CAP GROWTH FUND	EQUITY	BALL CORP	7,126,380.00	162,000	1.45		0
MML MID CAP GROWTH FUND	EQUITY	SYMANTEC CORP	2,553,600.00	120,000	0.52		0
MML MID CAP GROWTH FUND	EQUITY	WEBSTER FINANCIAL CORP	1,356,080.00	23,000	0.28		0
MML MID CAP GROWTH FUND	EQUITY	CONAGRA BRANDS INC	2,581,720.00	76,000	0.53		0
MML MID CAP GROWTH FUND	EQUITY	HARRIS CORP	8,291,290.00	49,000	1.69		0
MML MID CAP GROWTH FUND	CASH	US DOLLAR	0.29	0	0.00		0
MML MID CAP GROWTH FUND	EQUITY	TEXTRON INC	11,292,260.00	158,000	2.30		0
MML MID CAP VALUE FUND	EQUITY	PINNACLE WEST CAPITAL	4,421,332.02	55,839	0.97		0
MML MID CAP VALUE FUND	EQUITY	AMEREN CORPORATION	3,942,083.10	62,355	0.86		0
MML MID CAP VALUE FUND	EQUITY	CUMMINS INC	5,259,250.35	36,005	1.15		0
MML MID CAP VALUE FUND	EQUITY	DEVON ENERGY CORP	5,416,103.64	135,606	1.19		0
MML MID CAP VALUE FUND	EQUITY	HELMERICH + PAYNE	1,989,791.18	28,934	0.44		0
MML MID CAP VALUE FUND	EQUITY	LAM RESEARCH CORP	3,075,110.70	20,271	0.67		0
MML MID CAP VALUE FUND	EQUITY	NORFOLK SOUTHERN CORP	1,867,453.00	10,346	0.41		0
MML MID CAP VALUE FUND	EQUITY	PULTEGROUP INC	4,566,374.27	184,351	1.00		0
MML MID CAP VALUE FUND	EQUITY	UMB FINANCIAL CORP	5,206,754.20	73,438	1.14		0
MML MID CAP VALUE FUND	EQUITY	MONDELEZ INTERNATIONAL INC A	4,834,159.92	112,527	1.06		0
MML MID CAP VALUE FUND	EQUITY	EATON CORP PLC	4,600,939.77	53,049	1.01		0
MML MID CAP VALUE FUND	EQUITY	EMPIRE STATE REALTY TRUST A	1,498,869.79	90,239	0.33		0
MML MID CAP VALUE FUND	EQUITY	IMI PLC	4,269,859.36	299,046	0.93		0
MML MID CAP VALUE FUND	EQUITY	KEYSIGHT TECHNOLOGIES IN	2,155,757.00	32,525	0.47		0
MML MID CAP VALUE FUND	EQUITY	EVERSOURCE ENERGY	2,303,139.84	37,486	0.50		0
MML MID CAP VALUE FUND	EQUITY	WESTROCK CO	7,949,520.64	148,756	1.74		0
MML MID CAP VALUE FUND	EQUITY	HP INC	3,292,890.60	127,780	0.72		0
MML MID CAP VALUE FUND	EQUITY	STERIS PLC	2,793,304.80	24,417	0.61		0
MML MID CAP VALUE FUND	EQUITY	HUBBELL INC	10,550,560.73	78,989	2.31		0
MML MID CAP VALUE FUND	EQUITY	PROSPERITY BANCSHARES INC	1,433,811.25	20,675	0.31		0
MML MID CAP VALUE FUND	EQUITY	IMPERIAL OIL LTD	3,359,889.60	103,823	0.74		0
MML MID CAP VALUE FUND	EQUITY	COMMERCE BANCSHARES INC	5,109,419.84	77,392	1.12		0
MML MID CAP VALUE FUND	EQUITY	NORTHERN TRUST CORP	9,896,397.00	96,900	2.17		0
MML MID CAP VALUE FUND	EQUITY	KELLOGG CO	4,472,737.56	63,878	0.98		0
MML MID CAP VALUE FUND	EQUITY	M + T BANK CORP	6,122,697.94	37,211	1.34		0
MML MID CAP VALUE FUND	EQUITY	LIFEPOINT HEALTH INC	135,304.40	2,101	0.03		0
MML MID CAP VALUE FUND	EQUITY	BB+T CORP	9,167,361.48	188,862	2.01		0
MML MID CAP VALUE FUND	EQUITY	COMERICA INC	1,931,182.00	21,410	0.42		0
MML MID CAP VALUE FUND	EQUITY	MCKESSON CORP	4,591,812.40	34,616	1.00		0
MML MID CAP VALUE FUND	EQUITY	BEMIS COMPANY	446,099.40	9,179	0.10		0
MML MID CAP VALUE FUND	CASH	POUND STERLING	(0.03)	(0)	0.00		0
MML MID CAP VALUE FUND	EQUITY	BORGWARNER INC	3,640,278.54	85,093	0.80		0
MML MID CAP VALUE FUND	EQUITY	QUEST DIAGNOSTICS INC	2,573,329.77	23,847	0.56		0
MML MID CAP VALUE FUND	EQUITY	HENRY SCHEIN INC	4,701,988.94	55,298	1.03		0
MML MID CAP VALUE FUND	EQUITY	THOR INDUSTRIES INC	2,698,236.90	32,237	0.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MID CAP VALUE FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	11,621,531.20	11,621,531	2.54	1.1	10/1/2018
MML MID CAP VALUE FUND	EQUITY	JOHNSON CONTROLS INTERNATION	6,917,925.00	197,655	1.51	0	
MML MID CAP VALUE FUND	EQUITY	BAKER HUGHES A GE CO	6,066,970.71	179,337	1.33	0	
MML MID CAP VALUE FUND	EQUITY	APTIV PLC	1,070,647.90	12,761	0.23	0	
MML MID CAP VALUE FUND	EQUITY	SIEMENS HEALTHINEERS AG	2,042,496.92	46,447	0.45	0	
MML MID CAP VALUE FUND	EQUITY	NVENT ELECTRIC PLC	1,935,937.64	71,279	0.42	0	
MML MID CAP VALUE FUND	EQUITY	INVESCO LTD	9,315,042.88	407,126	2.04	0	
MML MID CAP VALUE FUND	EQUITY	GRAPHIC PACKAGING HOLDING CO	6,266,883.15	447,315	1.37	0	
MML MID CAP VALUE FUND	EQUITY	REINSURANCE GROUP OF AMERICA	3,912,082.72	27,062	0.86	0	
MML MID CAP VALUE FUND	EQUITY	EQT CORP	6,657,941.90	150,530	1.46	0	
MML MID CAP VALUE FUND	EQUITY	INGERSOLL RAND PLC	3,628,785.60	35,472	0.79	0	
MML MID CAP VALUE FUND	EQUITY	PIEDMONT OFFICE REALTY TRU A	3,393,827.19	179,283	0.74	0	
MML MID CAP VALUE FUND	EQUITY	CAPITOL FEDERAL FINANCIAL IN	3,987,900.28	313,022	0.87	0	
MML MID CAP VALUE FUND	EQUITY	TE CONNECTIVITY LTD	4,223,541.69	48,033	0.92	0	
MML MID CAP VALUE FUND	EQUITY	AMERICAN TOWER CORP	1,444,863.20	9,944	0.32	0	
MML MID CAP VALUE FUND	EQUITY	WEYERHAEUSER CO	7,127,894.41	220,883	1.56	0	
MML MID CAP VALUE FUND	EQUITY	AFLAC INC	3,364,234.11	71,473	0.74	0	
MML MID CAP VALUE FUND	EQUITY	HONDA MOTOR CO LTD SPONS ADR	3,917,829.76	130,247	0.86	0	
MML MID CAP VALUE FUND	EQUITY	REPUBLIC SERVICES INC	3,053,173.20	42,020	0.67	0	
MML MID CAP VALUE FUND	EQUITY	PACCAR INC	2,822,997.81	41,399	0.62	0	
MML MID CAP VALUE FUND	EQUITY	MICROCHIP TECHNOLOGY INC	4,439,082.05	56,255	0.97	0	
MML MID CAP VALUE FUND	EQUITY	NATIONAL OILWELL VARCO INC	1,446,583.32	33,579	0.32	0	
MML MID CAP VALUE FUND	EQUITY	XCEL ENERGY INC	6,885,342.45	145,845	1.51	0	
MML MID CAP VALUE FUND	EQUITY	SODEXO SA	2,779,734.22	26,244	0.61	0	
MML MID CAP VALUE FUND	EQUITY	PROASSURANCE CORP	3,345,140.55	71,249	0.73	0	
MML MID CAP VALUE FUND	EQUITY	ZIMMER BIOMET HOLDINGS INC	14,778,542.70	112,410	3.23	0	
MML MID CAP VALUE FUND	EQUITY	ADVANCE AUTO PARTS INC	4,823,832.81	28,657	1.06	0	
MML MID CAP VALUE FUND	EQUITY	ISHARES RUSSELL MID CAP VALUE	12,940,034.64	143,364	2.83	0	
MML MID CAP VALUE FUND	EQUITY	BANK OF HAWAII CORP	6,076,227.82	77,002	1.33	0	
MML MID CAP VALUE FUND	EQUITY	NOBLE ENERGY INC	6,314,134.79	202,441	1.38	0	
MML MID CAP VALUE FUND	EQUITY	JM SMUCKER CO/THE	2,452,481.61	23,901	0.54	0	
MML MID CAP VALUE FUND	EQUITY	CIMAREX ENERGY CO	4,994,688.54	53,741	1.09	0	
MML MID CAP VALUE FUND	EQUITY	NORTHWESTERN CORP	5,876,148.18	100,173	1.29	0	
MML MID CAP VALUE FUND	EQUITY	MOLSON COORS BREWING CO B	2,308,033.50	37,529	0.51	0	
MML MID CAP VALUE FUND	EQUITY	AMERIPRISE FINANCIAL INC	7,090,633.20	48,020	1.55	0	
MML MID CAP VALUE FUND	EQUITY	TRAVELERS COS INC/THE	1,251,960.92	9,652	0.27	0	
MML MID CAP VALUE FUND	EQUITY	ORKLA ASA	5,766,328.30	682,551	1.26	0	
MML MID CAP VALUE FUND	EQUITY	EMERSON ELECTRIC CO	5,482,438.78	71,591	1.20	0	
MML MID CAP VALUE FUND	EQUITY	SONOCO PRODUCTS CO	5,494,888.50	99,007	1.20	0	
MML MID CAP VALUE FUND	CASH	US DOLLAR	1.63	2	0.00	0	
MML MID CAP VALUE FUND	EQUITY	SYSCO CORP	5,530,887.75	75,507	1.21	0	
MML MID CAP VALUE FUND	EQUITY	TEXTRON INC	3,568,425.63	49,929	0.78	0	
MML MID CAP VALUE FUND	EQUITY	STATE STREET CORP	2,559,646.56	30,552	0.56	0	
MML MID CAP VALUE FUND	EQUITY	TARGET CORP	2,641,713.08	29,948	0.58	0	
MML MID CAP VALUE FUND	EQUITY	CARDINAL HEALTH INC	6,437,664.00	119,216	1.41	0	
MML MID CAP VALUE FUND	EQUITY	ANADARKO PETROLEUM CORP	4,671,647.82	69,302	1.02	0	
MML MID CAP VALUE FUND	CASH	EURO CURRENCY	0.67	1	0.00	0	
MML MID CAP VALUE FUND	EQUITY	GENERAL MILLS INC	2,222,826.80	51,790	0.49	0	
MML MID CAP VALUE FUND	EQUITY	HALLIBURTON CO	2,504,510.82	61,794	0.55	0	
MML MID CAP VALUE FUND	EQUITY	MAXIM INTEGRATED PRODUCTS	6,356,111.63	112,717	1.39	0	
MML MID CAP VALUE FUND	EQUITY	SOUTHWEST AIRLINES CO	5,505,529.55	88,159	1.20	0	
MML MID CAP VALUE FUND	EQUITY	SUNTRUST BANKS INC	4,886,356.40	73,160	1.07	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML MID CAP VALUE FUND	EQUITY	CHUBB LTD	6,686,142.84	50,031	1.46	0	
MML MID CAP VALUE FUND	EQUITY	MGM GROWTH PROPERTIES LLC A	3,913,706.37	132,713	0.86	0	
MML MID CAP VALUE FUND	EQUITY	SPIRE INC	2,912,359.35	39,597	0.64	0	
MML MID CAP VALUE FUND	EQUITY	US FOODS HOLDING CORP	1,849,847.22	60,021	0.40	0	
MML MID CAP VALUE FUND	EQUITY	WESTAMERICA BANCORPORATION	4,975,111.68	82,698	1.09	0	
MML MID CAP VALUE FUND	EQUITY	SCHNEIDER ELECTRIC SE	3,279,649.84	40,765	0.72	0	
MML MID CAP VALUE FUND	EQUITY	CONAGRA BRANDS INC	6,711,758.63	197,579	1.47	0	
MML MID CAP VALUE FUND	EQUITY	GENUINE PARTS CO	4,654,703.20	46,828	1.02	0	
MML MID CAP VALUE FUND	EQUITY	KIMBERLY CLARK CORP	4,165,928.76	36,659	0.91	0	
MML MID CAP VALUE FUND	EQUITY	TORCHMARK CORP	1,574,723.85	18,165	0.34	0	
MML MID CAP VALUE FUND	EQUITY	EDISON INTERNATIONAL	4,097,144.16	60,537	0.90	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML TOTAL RETURN BOND FUND	188,744,787.50	18,855,623	8.20	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL VALUE FUND	87,726,771.69	6,156,265	3.81	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML STRG EMERGING MARKETS FUND	52,444,271.12	4,759,008	2.28	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML FUNDAMENTAL GROWTH FUND	45,149,403.89	4,097,042	1.96	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML FOCUSED EQUITY FUND	23,235,128.52	3,999,162	1.01	0	
MML MODERATE ALLOCATION FUND	EQUITY	OPPENHEIMER DISCOVERY MID CAP	28,277,468.93	334,922	1.23	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML SMALL/MID CAP VALUE	26,110,852.12	2,008,527	1.13	0	
MML MODERATE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	181,099,545.51	18,237,618	7.87	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	74,253,303.45	6,952,557	3.23	0	
MML MODERATE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	38,399,034.83	16,134,048	1.67	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	220,384,385.71	22,626,734	9.57	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML SER INVT FD	88,586,477.03	2,729,938	3.85	0	
MML MODERATE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	21,881,342.25	703,806	0.95	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML SMALL CAP GROWTH EQUITY FD	19,456,200.35	1,204,912	0.85	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML MID CAP GROWTH FD	80,395,768.74	5,005,963	3.49	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML MID CAP VALUE FD	79,759,952.45	7,250,905	3.46	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	78,347,731.59	4,600,571	3.40	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	92,996,207.01	8,114,852	4.04	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	72,862,846.62	7,359,883	3.16	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	298,808,666.70	24,749,121	12.98	0	
MML MODERATE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	45,336,030.03	1,003,454	1.97	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	94,211,694.76	9,564,639	4.09	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	36,374,027.98	2,112,313	1.58	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML FOREIGN FD	76,627,819.35	7,168,178	3.33	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML GLOBAL FD	84,437,083.77	7,241,602	3.67	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML LARGE CAP GROWTH FD	24,486,030.99	2,230,057	1.06	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML SHORT DURATION BOND FUND	92,027,344.54	9,467,834	4.00	0	
MML MODERATE ALLOCATION FUND	EQUITY	MML HIGH YIELD FUND	49,775,241.75	5,012,612	2.16	0	
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 252926	27.40	24	0.00	8	12/1/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 352022	1,103.27	1,035	0.00	7	11/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 510083	200.48	180	0.00	7	7/15/2029
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	FED HM LN PC POOL C01135	1,169.74	1,036	0.00	7.5	2/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 575667	2,633.91	2,336	0.00	7	3/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 535996	1,355.42	1,200	0.00	7.5	6/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 478658	465.18	415	0.00	7	5/15/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 491089	1,829.83	1,686	0.00	7	12/15/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 602008	898.53	790	0.00	8	8/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 190317	719.91	632	0.00	8	8/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 597220	711.47	621	0.00	8	9/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 596656	198.92	193	0.00	8	8/1/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 581417	2,638.71	2,344	0.00	7	7/15/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	50,000.00	50,000	0.02	4.49	6/17/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	527.33	526	0.00	4.54421	7/25/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	3,570.02	3,552	0.00	3.715432	2/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	STRUCTURED ADJUSTABLE RATE MOR	4,378.62	4,357	0.00	4.32424	3/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	WAMU MORTGAGE PASS THROUGH CER	13,279.26	12,792	0.01	3.244984	4/25/2044
MML SHORT-DURATION BOND FUND	FIXED INCOME	COUNTRYWIDE ASSET BACKED CERTI	10,448.94	10,463	0.00	2.67581	9/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	INDYMAC INDX MORTGAGE LOAN TRU	7,843.22	8,002	0.00	3.93952	8/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	BANC OF AMERICA MORTGAGE SECUR	6,221.84	6,158	0.00	4.62745	8/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	MERRILL LYNCH MORTGAGE INVESTO	674.65	697	0.00	3.21604	2/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	COMPASS BANK	1,180,869.61	1,150,000	0.53	5.5	4/1/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 371146	68.36	65	0.00	7	9/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	COUNTRYWIDE HOME LOANS	716.22	786	0.00	3.991	9/25/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	GSR MORTGAGE LOAN TRUST	1,119.35	1,127	0.00	4.10491	8/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	149,682.12	150,000	0.07	2.63531	7/25/2025
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 532819	34.60	30	0.00	8	3/1/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 534703	581.04	511	0.00	8	5/1/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 529453	569.24	503	0.00	7.5	1/1/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	SPRINT COMMUNICATIONS	556,150.00	490,000	0.25	9.25	4/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA POOL 500928	887.04	794	0.00	7	5/15/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA II POOL 080136	165.09	162	0.00	3.125	11/20/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	NORTHSTAR EDUCATION FINANCE, I	197,097.45	198,587	0.09	3.08888	10/30/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	COUNTRYWIDE PARTNERSHIP TRUST	102,659.45	102,644	0.05	3.11581	2/25/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	MORGAN STANLEY MORTGAGE LOAN T	45.60	42	0.00	4.37498	2/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	SLC STUDENT LOAN TRUST	349,183.65	376,579	0.16	2.51375	2/15/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	RAAC SERIES	11,723.13	11,731	0.01	2.46581	2/25/2037
MML SHORT-DURATION BOND FUND	FIXED INCOME	ACE SECURITIES CORP.	2,065.25	2,057	0.00	2.95081	8/25/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	WEYERHAEUSER CO	140,632.82	135,000	0.06	7.375	10/1/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	RPM INTERNATIONAL INC	901,052.24	878,000	0.40	6.125	10/15/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	INCITEC PIVOT FIN LLC	925,174.93	902,000	0.41	6	12/10/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	LINCOLN NATIONAL CORP	518,201.46	500,000	0.23	6.25	2/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	GNMA II POOL 082462	61,904.82	59,778	0.03	3.375	1/20/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	MASCO CORP	68,269.15	65,000	0.03	7.125	3/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	CREDIT SUISSE SEASONED LOAN TR	108,127.41	108,337	0.05	2.45581	10/25/2034
MML SHORT-DURATION BOND FUND	FIXED INCOME	SVB FINANCIAL GROUP	77,701.39	75,000	0.03	5.375	9/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	321 HENDERSON RECEIVABLES LLC	231,241.03	230,512	0.10	3.82	12/15/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	CNA FINANCIAL CORP	468,802.03	443,000	0.21	5.75	8/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	CIGNA CORP	806,123.39	790,000	0.36	4.5	3/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	COLLEGE LOAN CORPORATON TRUST	202,852.25	216,160	0.09	2.82919	1/15/2037
MML SHORT-DURATION BOND FUND	FIXED INCOME	WILLIS TOWERS WATSON PLC	387,860.13	370,000	0.17	5.75	3/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	LOUISIANA ST PUBLIC FACS AUTH	45,901.52	45,849	0.02	3.23531	4/26/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	REINSURANCE GRP OF AMER	622,495.25	600,000	0.28	5	6/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	PUGET ENERGY INC	270,169.41	255,000	0.12	6.5	12/15/2020

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	TRIP RAIL MASTER FUNDING LLC	693,196.71	669,679	0.31	6.024	7/15/2041
MML SHORT-DURATION BOND FUND	FIXED INCOME	PUGET ENERGY INC	276,396.03	260,000	0.12	6	9/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	XLIT LTD	492,005.23	465,000	0.22	5.75	10/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	BANCOLOMBIA SA	204,165.00	195,000	0.09	5.95	6/3/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	CIGNA CORP	318,461.93	316,000	0.14	4	2/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	LEIDOS HOLDINGS INC	1,006,442.50	995,000	0.45	4.45	12/1/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	JPMORGAN CHASE + CO	1,020,563.99	990,000	0.46	4.5	1/24/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	HUGHES SATELLITE SYSTEMS	900,660.00	883,000	0.40	6.5	6/15/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRUG ROYALTY CORPORATION, INC.	18,077.99	18,000	0.01	7.32163	7/15/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	MOLSON COORS BREWING CO	195,320.48	197,000	0.09	3.5	5/1/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	ERICSSON LM	1,639,560.37	1,650,000	0.73	4.125	5/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	KINROSS GOLD CORP	482,925.00	470,000	0.22	5.125	9/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	LYONDELLBASELL IND NV	366,828.65	365,000	0.16	5	4/15/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	LYONDELLBASELL IND NV	530,904.77	500,000	0.24	6	11/15/2021
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMTRUST FINANCIAL SERVIC	567,045.11	585,000	0.25	6.125	8/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMER AIRLN 14 1 B PTT	27,721.54	27,900	0.01	4.375	4/1/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	SANTANDER DRIVE AUTO RECEIVABL	179,345.76	179,118	0.08	3.1	11/16/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	591,790.45	600,000	0.26	2.855961	6/25/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	WESTGATE RESORTS	64,096.12	64,365	0.03	2.15	12/20/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	MVW OWNER TRUST	116,389.52	119,109	0.05	2.25	9/22/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	204,642.45	208,354	0.09	2.74	2/15/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	NUVEEN FINANCE LLC	1,003,621.19	1,005,000	0.45	2.95	11/1/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	GATX CORP	449,243.06	455,000	0.20	2.6	3/30/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	132,007.28	132,702	0.06	2.3	10/20/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERCULES CAPITAL FUNDING TRUST	6,797.01	6,797	0.00	3.524	4/16/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	RPM INTERNATIONAL INC	7,867.59	8,000	0.00	3.45	11/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	45,104.26	45,369	0.02	3.54	5/22/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMEREN CORP	448,193.91	455,000	0.20	2.7	11/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	WESTGATE RESORTS	129,680.93	129,834	0.06	3.2	7/20/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	BUNGE LTD FINANCE CORP	1,076,627.53	1,080,000	0.48	3.5	11/24/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	EDP FINANCE BV	454,296.16	452,000	0.20	4.125	1/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	26,439.84	26,454	0.01	2.54	5/20/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	LENNAR CORP	1,035,710.00	1,028,000	0.46	4.5	11/15/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	ARES CAPITAL CORP	680,684.60	678,000	0.30	3.875	1/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	23,600.65	23,591	0.01	3.475	12/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DONG FANG CONTAINER FINANCE SP	12,471.74	12,500	0.01	1.95	11/25/2039
MML SHORT-DURATION BOND FUND	FIXED INCOME	PENSKE TRUCK LEASING/PTL	512,599.17	515,000	0.23	3.05	1/9/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	KINROSS GOLD CORP	561,000.00	550,000	0.25	5.95	3/15/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	PENSKE TRUCK LEASING/PTL	19,720.24	20,000	0.01	3.375	2/1/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	CFC LLC	4,979.43	4,981	0.00	1.75	6/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	288,090.46	288,840	0.13	2.44	6/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	325,472.88	327,640	0.15	3.05	3/22/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	264,094.72	268,792	0.12	2.4	3/22/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	HARRIS CORPORATION	944,565.54	954,000	0.42	2.7	4/27/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERO FUNDING TRUST	648,816.03	628,700	0.29	3.84	9/21/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	BOSTON SCIENTIFIC CORP	253,167.05	255,000	0.11	2.85	5/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	651,512.55	650,000	0.29	3.9	3/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	121,763.16	130,000	0.05	3.71581	6/25/2054
MML SHORT-DURATION BOND FUND	FIXED INCOME	CNH INDUSTRIAL CAPITAL L	353,458.90	353,000	0.16	3.375	7/15/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	WELK RESORTS LLC	76,692.86	78,481	0.03	2.79	6/16/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	REYNOLDS AMERICAN INC	98,605.09	98,000	0.04	4	6/12/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	29,559.07	29,765	0.01	2.32	4/25/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1047968 CDS USD R F 3.00000	361,648.18	410,000	0.16	3	11/17/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1047968 CDS USD P V 01MEVENT	(410,000.00)	(410,000)	0.18	1	11/17/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	CAZENOVIA CREEK FUNDING LLC	34,077.62	34,163	0.02	2	12/10/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	259,448.76	262,703	0.12	2.43	6/20/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	ENTERGY NEW ORLEANS STORE RECO	70,407.50	72,283	0.03	2.67	6/1/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	IMPERIAL BRANDS FIN PLC	1,076,382.74	1,087,000	0.48	2.95	7/21/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	ACCESS GROUP INC	233,171.88	233,890	0.10	2.91581	7/25/2056
MML SHORT-DURATION BOND FUND	FIXED INCOME	ACCESS GROUP INC	125,852.37	140,000	0.06	3.71581	7/25/2058
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	5,009.63	5,011	0.00	1.98	10/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	AERCAP IRELAND CAP/GLOBA	1,025,674.18	1,010,000	0.46	4.5	5/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	ELARA HGV TIMESHARE ISSUER	68,717.89	70,963	0.03	3.02	2/25/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	240,200.52	239,986	0.11	3.28	9/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARRIOTT INTERNATIONAL	763,310.33	775,000	0.34	2.875	3/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	AUTONATION INC	669,091.18	675,000	0.30	3.35	1/15/2021

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	39,180.56	39,696	0.02	2.54	4/27/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	55,968.72	56,872	0.03	2.58	9/20/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	GLENCORE FINANCE CANADA	255,785.62	254,000	0.11	4.25	10/25/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	WILLIAMS COMPANIES INC	1,108,340.80	1,120,000	0.50	3.7	1/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	MORGAN STANLEY	1,219,771.81	1,220,000	0.54	3.75	2/25/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMERICAN TOWER TRUSTE I	485,134.75	500,000	0.22	3.07	3/15/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	GRAPHIC PACKAGING INTERN	1,104,940.00	1,094,000	0.49	4.75	4/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	FRS LLC	15,480.42	15,553	0.01	1.8	4/15/2043
MML SHORT-DURATION BOND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	132,738.47	135,208	0.06	2.98	4/17/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	BRUNSWICK CORP	1,079,900.01	1,088,000	0.48	4.625	5/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	GLENCORE FUNDING LLC	589,280.20	590,000	0.26	4.125	5/30/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	HIGHER EDUCATION FUNDING	835,845.15	950,000	0.37	0	1/1/2044
MML SHORT-DURATION BOND FUND	FIXED INCOME	O REILLY AUTOMOTIVE INC	183,311.80	183,000	0.08	3.85	6/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	CREDIT SUISSE ABS REPACKAGING	80,630.82	87,209	0.04	2.5	1/25/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	MVV OWNER TRUST	69,568.18	70,598	0.03	2.15	4/22/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	CELGENE CORP	333,041.69	330,000	0.15	4	8/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	HILTON GRAND VACATIONS TRUST	72,557.20	72,981	0.03	2.28	1/25/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	DISCOVER BANK	311,103.80	310,000	0.14	4.2	8/8/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	116,795.09	120,000	0.05	3.71581	12/28/2070
MML SHORT-DURATION BOND FUND	FIXED INCOME	LINCOLN NATIONAL CORP	123,377.65	122,000	0.06	4	9/1/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	QVC INC	553,129.51	560,000	0.25	4.375	3/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	21,657.32	21,874	0.01	3.08	9/20/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	FREDDIE MAC	439,635.23	448,361	0.20	3	8/15/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	NEXTGEAR FLOORPLAN MASTER OWNE	249,982.63	250,000	0.11	2.38	10/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	FIRST HORIZON NATIONAL	1,131,665.90	1,130,000	0.51	3.5	12/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	HYUNDAI CAPITAL AMERICA	787,561.60	800,000	0.35	3	10/30/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	19,639.44	19,654	0.01	2.38	10/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	PENSKE TRUCK LEASING/PTL	148,474.72	150,000	0.07	3.3	4/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	ARBYS FUNDING LLC	292,700.70	291,750	0.13	4.969	10/30/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	66,873.58	67,146	0.03	2.99	5/22/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	BLUE VIRGO	157,803.42	157,803	0.07	3	12/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	151,627.30	148,748	0.07	3.91581	1/25/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	587,806.59	589,571	0.26	3.2	1/25/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	MACQUARIE BANK LTD	127,875.67	130,000	0.06	2.85	1/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1058452 CDS USD R F 3.00000	361,648.18	410,000	0.16	3	5/11/2063
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1058452 CDS USD P V 01MEVENT	(410,000.00)	(410,000)	0.18	1	5/11/2063
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1058742 CDS USD R F 3.00000	132,310.31	150,000	0.06	3	5/11/2063
MML SHORT-DURATION BOND FUND	FIXED INCOME	BM1058742 CDS USD P V 01MEVENT	(150,000.00)	(150,000)	0.07	1	5/11/2063
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	82,227.40	83,171	0.04	3.06	7/25/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	CROWN CASTLE INTL CORP	612,425.14	614,000	0.27	3.4	2/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	REGIONS FINANCIAL CORP	890,828.92	895,000	0.40	3.2	2/8/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	ENTERPRISE FLEET FINANCING LLC	51,433.41	51,488	0.02	1.83	9/20/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SANTANDER DRIVE AUTO RECEIVABL	503,988.65	500,000	0.23	4.02	4/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SANTANDER DRIVE AUTO RECEIVABL	52,919.97	52,928	0.02	2.47	12/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	STANDARD INDUSTRIES INC	566,300.00	560,000	0.25	5.5	2/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	61,112.21	61,110	0.03	2.77	12/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	EXPRESS SCRIPTS HOLDING	1,188,883.02	1,195,000	0.53	3.3	2/25/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMERICAN INTL GROUP	548,863.38	550,000	0.25	3.3	3/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRB PRIME STUDENT LOAN TRUST	132,956.49	129,372	0.06	4.21581	4/25/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	157,028.21	152,465	0.07	3.96581	8/25/2036
MML SHORT-DURATION BOND FUND	FIXED INCOME	DIGITAL REALTY TRUST LP	220,209.24	220,000	0.10	3.4	10/1/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	ENERGY TEXAS INC	92,492.48	95,000	0.04	2.55	6/1/2021

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	MASCO CORP	269,856.67	270,000	0.12	3.5	4/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	CNH INDUSTRIAL CAPITAL L	117,854.66	115,000	0.05	4.875	4/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	ELEMENT RAIL LEASING LLC	139,874.67	139,284	0.06	3.968	3/19/2046
MML SHORT-DURATION BOND FUND	FIXED INCOME	CVS HEALTH CORP	810,789.37	840,000	0.36	2.125	6/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	DELL INT LLC / EMC CORP	482,161.35	475,000	0.22	4.42	6/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	DELL INT LLC / EMC CORP	280,707.49	280,000	0.13	3.48	6/1/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	NXP BV/NXP FUNDING LLC	569,384.40	570,000	0.25	4.125	6/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	145,196.25	142,971	0.06	3.41581	6/25/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLIR SYSTEMS INC	226,306.46	230,000	0.10	3.125	6/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	OXFORD FINANCE FUNDING TRUST	191,188.59	192,460	0.09	3.968	6/17/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARRIOTT INTERNATIONAL	28,766.59	30,000	0.01	2.3	1/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	HYUNDAI CAPITAL AMERICA	64,566.18	65,000	0.03	2	7/1/2019
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	482,849.28	483,586	0.22	3.26	8/25/2025
MML SHORT-DURATION BOND FUND	FIXED INCOME	ELARA HGV TIMESHARE ISSUER	365,914.34	373,951	0.16	2.73	4/25/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	MOLSON COORS BREWING CO	317,317.56	330,000	0.14	2.1	7/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SUMITOMO MITSUI FINL GRP	562,429.85	585,000	0.25	2.058	7/14/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	213,337.53	216,578	0.10	2.78	7/20/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	127,400.22	124,698	0.06	3.60844	2/17/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	CPS AUTO TRUST	150,828.53	150,982	0.07	2.48	9/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	TEVA PHARMACEUTICALS NE	1,057,162.50	1,125,000	0.47	2.2	7/21/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	178,968.73	179,534	0.08	3.09	10/27/2025
MML SHORT-DURATION BOND FUND	FIXED INCOME	EARNEST STUDENT LOAN PROGRAM L	279,797.48	292,060	0.12	2.68	7/25/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	696,846.84	679,644	0.31	3.46581	6/25/2065
MML SHORT-DURATION BOND FUND	FIXED INCOME	MVW OWNER TRUST	45,948.39	47,483	0.02	2.25	12/20/2033
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIMON PROPERTY GROUP LP	434,823.78	450,000	0.19	2.35	1/30/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SPS SERVICER ADVANCE RECEIVABL	1,040,757.12	1,040,000	0.46	2.53	11/16/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	914,763.14	918,396	0.41	3.06	9/25/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	ABBOTT LABORATORIES	567,811.86	575,000	0.25	2.9	11/30/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	SHELLPOINT CO ORIGINATOR TRUST	763,822.72	799,402	0.34	3	10/25/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	NEW RESIDENTIAL ADVANCE RECEIV	693,419.80	700,000	0.31	3.1068	12/15/2050
MML SHORT-DURATION BOND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	505,285.27	505,000	0.23	3.579	7/23/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	OHA LOAN FUNDING LTD	592,495.11	590,000	0.26	3.72375	8/15/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	LCM LTD PARTNERSHIP	592,280.35	590,000	0.26	3.7475	10/20/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	259,467.78	260,000	0.12	3	12/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	767,395.28	750,000	0.34	3.36581	7/26/2066
MML SHORT-DURATION BOND FUND	FIXED INCOME	RACE POINT CLO LTD	703,255.70	700,000	0.31	3.66225	2/20/2030
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARINER FINANCE ISSUANCE TRUST	399,931.80	400,000	0.18	3.62	2/20/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	SYMPHONY CLO LTD	800,260.80	800,000	0.36	3.516	10/17/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	FANNIE MAE	294,447.87	299,236	0.13	3	1/25/2041
MML SHORT-DURATION BOND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	563,862.34	571,287	0.25	3.5	12/25/2048
MML SHORT-DURATION BOND FUND	OPTIONS	BM1106269 SWAPTION	217,534.85	6,340,000	0.10	0	12/13/2032
MML SHORT-DURATION BOND FUND	OPTIONS	BM1105998 SWAPTION	750,427.96	12,910,000	0.34	0	12/13/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	EDLINC STUDENT LOAN FUNDING TR	598,033.84	604,770	0.27	3.35	12/1/2047
MML SHORT-DURATION BOND FUND	FIXED INCOME	GENERAL MOTORS FINL CO	1,243,941.52	1,290,000	0.56	3.25	1/5/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	CPS AUTO TRUST	125,900.92	126,343	0.06	2.16	5/17/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	1,517,164.27	1,560,000	0.68	3.29	2/25/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	CITIGROUP INC	975,853.27	995,000	0.44	3.142	1/24/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	748,114.98	770,000	0.33	3.6	2/25/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	406,913.75	412,534	0.18	3.5	6/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	2,058,891.60	2,105,000	0.92	3.2	2/23/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	718,200.00	1,000,000	0.32	0	2/25/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	267,620.33	270,000	0.12	2.75	4/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	853,853.22	850,000	0.38	2.93581	3/25/2067
MML SHORT-DURATION BOND FUND	FIXED INCOME	BROADCOM CRP / CAYMN FI	779,408.00	800,000	0.35	3	1/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	518,450.95	528,798	0.23	3.027	12/25/2057
MML SHORT-DURATION BOND FUND	FIXED INCOME	VMC FINANCE LLC	361,004.85	361,226	0.16	2.97844	4/15/2035
MML SHORT-DURATION BOND FUND	OPTIONS	BM1107812 SWAPTION	768,710.38	14,580,000	0.34	0	1/31/2033
MML SHORT-DURATION BOND FUND	OPTIONS	BM1107929 SWAPTION	280,257.29	7,310,000	0.13	0	1/31/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	DISCOVER BANK	896,302.86	923,000	0.40	3.35	2/6/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	TESLA AUTO LEASE TRUST	149,357.99	150,000	0.07	2.75	2/20/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	372,169.68	370,850	0.17	4	2/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	GLENCORE FUNDING LLC	249,184.00	260,000	0.11	3	10/27/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	AVANT LOANS FUNDING TRUST	57,521.24	57,552	0.03	2.29	6/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,125,594.73	1,180,478	0.50	2.53531	1/27/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	NP SPE II LLC	168,602.06	172,447	0.08	3.372	10/21/2047
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	633,998.04	650,000	0.28	2.92	11/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	FIRST INVESTORS AUTO OWNER TRU	332,493.79	340,000	0.15	2.72	4/17/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	NEUBERGER BERMAN CLO LTD	247,304.75	250,000	0.11	3.58919	1/15/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	ANDEAVOR LOGIS LP/CORP	167,393.83	170,000	0.07	3.5	12/1/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERO FUNDING TRUST	267,150.95	278,334	0.12	3.19	9/20/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMERICAN CREDIT ACCEPTANCE REC	766,414.65	770,000	0.34	2.94	1/10/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	AMERICAN TOWER CORP	616,147.26	640,000	0.28	3	6/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARINER FINANCE ISSUANCE TRUST	885,594.60	900,000	0.40	2.92	12/20/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	FREDDIE MAC	373,519.56	380,492	0.17	3	3/15/2041
MML SHORT-DURATION BOND FUND	FIXED INCOME	NEW RESIDENTIAL MORTGAGE LOAN	329,341.69	330,852	0.15	3.75	11/25/2056
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERO FUNDING TRUST	281,240.86	286,602	0.13	3.57	9/20/2047

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	SPRINGLEAF FUNDING TRUST	1,456,044.13	1,460,000	0.65	2.9	11/15/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	TREMAN PARK CLO LTD	950,325.85	950,000	0.42	3.7175	4/20/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET PRIVATE EDUCATION LOAN	170,310.62	177,186	0.08	3.6	12/26/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET PRIVATE EDUCATION LOAN	246,497.51	246,072	0.11	3.96581	12/26/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	SUMITOMO MITSUI FINL GRP	146,325.05	150,000	0.07	2.846	1/11/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	CPS AUTO TRUST	1,146,804.15	1,150,000	0.51	2.68	5/17/2021
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	TAL ADVANTAGE LLC	434,199.64	430,304	0.19	4.5	4/20/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	MAGNETITE CLO LTD	700,056.70	700,000	0.31	3.45263	1/18/2027
MML SHORT-DURATION BOND FUND	FIXED INCOME	ANGLO AMERICAN CAPITAL	493,585.00	500,000	0.22	3.75	4/10/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SBA TOWER TRUST	343,195.27	350,000	0.15	3.168	4/9/2047
MML SHORT-DURATION BOND FUND	FIXED INCOME	BRE GRAND ISLANDER TIMESHARE I	177,850.06	182,063	0.08	2.94	5/25/2029
MML SHORT-DURATION BOND FUND	FIXED INCOME	BANCO SANTANDER SA	1,174,498.13	1,200,000	0.52	3.5	4/11/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	MADISON PARK FUNDING LTD	280,027.44	280,000	0.13	3.4675	7/20/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	GLOBAL SC FINANCE SRL	281,472.91	285,304	0.13	3.85	4/15/2037
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERTZ VEHICLE FINANCING LLC	327,869.03	330,000	0.15	4.37	7/25/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	MOSAIC SOLAR LOANS LLC	343,060.77	344,000	0.15	4.2	2/22/2044
MML SHORT-DURATION BOND FUND	FIXED INCOME	JP MORGAN CHASE COMMERCIAL MOR	851,056.47	850,000	0.38	3.15844	6/15/2032
MML SHORT-DURATION BOND FUND	FIXED INCOME	CPS AUTO TRUST	179,617.03	180,000	0.08	3.43	7/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIERRA RECEIVABLES FUNDING CO	298,853.20	300,374	0.13	3.94	6/20/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	CELGENE CORP	558,948.42	570,000	0.25	3.25	2/20/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	472,378.89	480,000	0.21	2.946	3/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	WELK RESORTS LLC	223,779.91	230,164	0.10	3.41	6/15/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	JACKSON NATL LIFE GLOBAL	909,561.44	945,000	0.41	2.5	6/27/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	269,447.69	270,000	0.12	2.84	4/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARLETTE FUNDING TRUST	101,959.32	102,130	0.05	2.39	7/15/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	LENDMARK FUNDING TRUST	238,623.60	240,000	0.11	2.83	12/22/2025
MML SHORT-DURATION BOND FUND	FIXED INCOME	TRAFIGURA SECURITISATION FINAN	259,761.06	260,000	0.12	3.85844	12/15/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	SIRIUS XM RADIO INC	1,128,223.61	1,147,000	0.50	3.875	8/1/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	DXC TECHNOLOGY CO	228,081.80	230,000	0.10	2.875	3/27/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	MITSUBISHI UFJ FIN GRP	1,128,408.84	1,170,000	0.50	2.665	7/25/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	2,078,143.65	2,150,000	0.93	2.816	7/21/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOCIAL PROFESSIONAL LOAN PROGR	630,000.00	1,000,000	0.28	0	9/25/2040
MML SHORT-DURATION BOND FUND	FIXED INCOME	DAE FUNDING LLC	202,693.75	205,000	0.09	4	8/1/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	TRIP RAIL MASTER FUNDING LLC	141,134.97	143,335	0.06	2.709	8/15/2047
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	139,646.49	140,000	0.06	2.75	9/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	GCCFC COMMERCIAL MORTGAGE TRUS	111,758.66	110,600	0.05	5.92809	7/10/2038
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	223,089.43	224,434	0.10	2.44531	10/25/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	232,292.25	233,962	0.10	2.46638	3/23/2037
MML SHORT-DURATION BOND FUND	FIXED INCOME	ACCESS GROUP INC	41,096.83	42,022	0.02	3.19	7/1/2038
MML SHORT-DURATION BOND FUND	FIXED INCOME	FNMA POOL 725692	22,257.77	21,230	0.01	4.314	10/1/2033
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	422,141.67	425,593	0.19	2.53	2/18/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	1,237,736.25	1,250,000	0.55	3.13	1/17/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	FLAGSHIP CREDIT AUTO TRUST	579,174.19	581,832	0.26	2.59	6/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	713,608.23	723,452	0.32	3.5	3/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	RYDER SYSTEM INC	172,712.77	175,000	0.08	3.4	3/1/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	PNMAC GMSR ISSUER TRUST	252,892.65	250,000	0.11	5.06581	2/25/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	TLF NATIONAL TAX LIEN TRUST	429,042.77	430,177	0.19	3.09	12/15/2029
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	605,474.82	615,789	0.27	3.5	9/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	804,113.20	800,000	0.36	2.97581	5/25/2066
MML SHORT-DURATION BOND FUND	FIXED INCOME	DOLLAR TREE INC	582,369.35	590,000	0.26	3.7	5/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	ELFI GRADUATE LOAN PROGRAM	596,610.64	596,611	0.27	2.96581	8/25/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	ELFI GRADUATE LOAN PROGRAM	241,449.18	250,000	0.11	4	8/25/2042
MML SHORT-DURATION BOND FUND	FIXED INCOME	SYNGENTA FINANCE NV	439,001.64	440,000	0.20	3.698	4/24/2020
MML SHORT-DURATION BOND FUND	FIXED INCOME	EXETER AUTOMOBILE RECEIVABLES	249,142.78	250,000	0.11	3.27	5/16/2022
MML SHORT-DURATION BOND FUND	FUTURE	US 10YR NOTE (CBT)DEC18	-	22,500,000	0.00	0	12/19/2018
MML SHORT-DURATION BOND FUND	FUTURE	US 5YR NOTE (CBT) DEC18	-	(64,400,000)	0.02	0	12/31/2018
MML SHORT-DURATION BOND FUND	FUTURE	US 2YR NOTE (CBT) DEC18	-	64,000,000	0.01	0	12/31/2018
MML SHORT-DURATION BOND FUND	FIXED INCOME	DOMINOS PIZZA MASTER ISSUER LL	356,941.34	359,100	0.16	4.116	7/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	WESTGATE RESORTS	389,453.72	391,482	0.17	3.38	12/20/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	GOODGREEN TRUST	349,234.34	350,828	0.16	3.93	10/15/2053
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	569,497.08	577,351	0.25	3.5	5/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	JP MORGAN MORTGAGE TRUST	558,493.21	566,181	0.25	3.5	10/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	571,809.90	575,000	0.26	3.54875	2/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	FIRST INVESTORS AUTO OWNER TRU	289,700.69	290,000	0.13	3.22	1/17/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARLETTE FUNDING TRUST	249,629.57	250,068	0.11	3.06	7/17/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	LENDMARK FUNDING TRUST	349,632.71	350,000	0.16	3.81	12/21/2026
MML SHORT-DURATION BOND FUND	FIXED INCOME	BARCLAYS PLC	482,462.24	485,000	0.22	3.69519	5/16/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	935,058.38	931,749	0.42	4	6/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	KEURIG DR PEPPER INC	626,091.08	625,000	0.28	4.057	5/25/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	170,502.01	170,000	0.08	2.87844	12/15/2059
MML SHORT-DURATION BOND FUND	FIXED INCOME	HERO FUNDING TRUST	512,836.72	501,950	0.23	4.67	9/20/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	199,735.40	200,000	0.09	3.22	4/15/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	PSMC 2018 1 TRUST	614,670.74	624,680	0.27	3.5	6/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	AVANT LOANS FUNDING TRUST	285,038.20	285,099	0.13	3.09	6/15/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	MICROCHIP TECHNOLOGY INC	447,363.61	450,000	0.20	3.922	6/1/2021
MML SHORT-DURATION BOND FUND	FIXED INCOME	DEEPHAVEN RESIDENTIAL MORTGAGE	883,220.75	886,803	0.39	3.684	4/25/2058
MML SHORT-DURATION BOND FUND	FUTURE	US 10YR ULTRA FUT DEC18	-	(8,200,000)	0.00	0	12/19/2018
MML SHORT-DURATION BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	1,068,414.30	1,060,000	0.48	4.2	9/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	CASTLELAKE AIRCRAFT STRUCTURED	362,348.28	363,377	0.16	4.125	6/15/2043
MML SHORT-DURATION BOND FUND	FIXED INCOME	COLLEGE AVE STUDENT LOANS	593,505.66	593,506	0.27	3.41581	12/26/2047
MML SHORT-DURATION BOND FUND	FIXED INCOME	TRINITY RAIL LEASING L.P.	586,156.49	585,000	0.26	3.82	6/17/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	SMB PRIVATE EDUCATION LOAN TRU	550,547.09	550,000	0.25	2.87844	1/15/2037
MML SHORT-DURATION BOND FUND	FIXED INCOME	TRITON CONTAINER FINANCE LLC	535,174.50	536,250	0.24	4.19	6/22/2043
MML SHORT-DURATION BOND FUND	FIXED INCOME	RYDER SYSTEM INC	480,898.76	482,000	0.21	3.75	6/9/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	BAYER US FINANCE II LLC	981,671.08	980,000	0.44	3.34413	12/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVIENT STUDENT LOAN TRUST	908,457.39	900,000	0.41	3.01581	3/25/2067
MML SHORT-DURATION BOND FUND	FIXED INCOME	EQT MIDSTREAM PARTNERS L	669,757.02	660,000	0.30	4.75	7/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	TIAA BANK MORTGAGE LOAN TRUST	327,964.31	332,485	0.15	3.5	7/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	BHMS MORTGAGE TRUST	951,456.26	950,000	0.43	3.65844	7/15/2035
MML SHORT-DURATION BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	700,027.86	700,000	0.31	2.96581	9/27/2066
MML SHORT-DURATION BOND FUND	FIXED INCOME	OSCAR US FUNDING TRUST	259,372.10	260,000	0.12	3.63	9/10/2025
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	668,922.44	665,607	0.30	4	8/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	ANTARES HOLDINGS	662,597.76	660,000	0.30	6	8/15/2023
MML SHORT-DURATION BOND FUND	FIXED INCOME	GENPACT LUXEMBOURG SARL	1,010,627.66	1,035,000	0.45	3.7	4/1/2022
MML SHORT-DURATION BOND FUND	FIXED INCOME	MARLETTE FUNDING TRUST	632,558.83	632,652	0.28	3.2	9/15/2028
MML SHORT-DURATION BOND FUND	FIXED INCOME	SECURITIZED EQUIPMENT RECEIV	268,496.67	270,000	0.12	3.76	10/11/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	SECURITIZED EQUIPMENT RECEIV	308,118.15	310,000	0.14	4.2	10/11/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	COMMONBOND STUDENT LOAN TRUST	229,320.03	230,000	0.10	4.12	9/25/2045
MML SHORT-DURATION BOND FUND	FIXED INCOME	SOFI CONSUMER LOAN PROGRAM TRU	305,544.25	305,592	0.14	3.2	8/25/2027

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SHORT-DURATION BOND FUND	FIXED INCOME	VSE VOI MORTGAGE LLC	310,362.67	312,346	0.14	4.02	2/20/2036
MML SHORT-DURATION BOND FUND	FIXED INCOME	SEQUOIA MORTGAGE TRUST	240,602.29	237,644	0.11	4	9/25/2048
MML SHORT-DURATION BOND FUND	FIXED INCOME	DIAMOND RESORTS OWNER TRUST	369,276.92	371,146	0.16	3.7	1/21/2031
MML SHORT-DURATION BOND FUND	FIXED INCOME	WILLIS ENGINE SECURITIZATION T	260,586.38	260,000	0.12	4.75	9/15/2043
MML SHORT-DURATION BOND FUND	FIXED INCOME	DRIVE AUTO RECEIVABLES TRUST	229,668.92	230,000	0.10	3.66	11/15/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	CAL FUNDING III LTD	289,967.43	290,000	0.13	4.34	9/25/2043
MML SHORT-DURATION BOND FUND	FIXED INCOME	WABTEC	863,880.13	870,000	0.39	4.15	3/15/2024
MML SHORT-DURATION BOND FUND	FIXED INCOME	NAVISTAR FINANCIAL DEALER NOTE	160,250.14	160,000	0.07	3.21813	9/25/2023
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP EQUITY FUND	EQUITY	FCB FINANCIAL HOLDINGS CL A	1,116,412.20	23,553	0.88		0
MML SMALL CAP EQUITY FUND	EQUITY	INTERSECT ENT INC	683,387.50	23,770	0.54		0
MML SMALL CAP EQUITY FUND	EQUITY	DIPLOMAT PHARMACY INC	868,985.70	44,770	0.68		0
MML SMALL CAP EQUITY FUND	EQUITY	JAMES RIVER GROUP HOLDINGS L	694,066.70	16,285	0.54		0
MML SMALL CAP EQUITY FUND	EQUITY	BENEFICIAL BANCORP INC	847,873.00	50,170	0.67		0
MML SMALL CAP EQUITY FUND	EQUITY	SUMMIT MATERIALS INC CL A	1,137,322.62	62,559	0.89		0
MML SMALL CAP EQUITY FUND	EQUITY	ETSY INC	1,782,372.20	34,690	1.40		0
MML SMALL CAP EQUITY FUND	EQUITY	NATIONAL STORAGE AFFILIATES	1,667,083.20	65,530	1.31		0
MML SMALL CAP EQUITY FUND	EQUITY	ENERGIZER HOLDINGS INC	1,476,220.50	25,170	1.16		0
MML SMALL CAP EQUITY FUND	EQUITY	TOPBUILD CORP	800,025.60	14,080	0.63		0
MML SMALL CAP EQUITY FUND	EQUITY	ZOGENIX INC	376,960.00	7,600	0.30		0
MML SMALL CAP EQUITY FUND	EQUITY	TELADOC HEALTH INC	1,643,240.50	19,030	1.29		0
MML SMALL CAP EQUITY FUND	EQUITY	WRIGHT MEDICAL GROUP NV	971,009.20	33,460	0.76		0
MML SMALL CAP EQUITY FUND	EQUITY	FOUR CORNERS PROPERTY TRUST	1,951,412.40	75,960	1.53		0
MML SMALL CAP EQUITY FUND	EQUITY	CRYOPORT INC	310,898.70	24,270	0.24		0
MML SMALL CAP EQUITY FUND	EQUITY	SENSEONICS HOLDINGS INC	552,747.60	115,880	0.43		0
MML SMALL CAP EQUITY FUND	EQUITY	AMERICAN RENAL ASSOCIATES HO	522,198.00	24,120	0.41		0
MML SMALL CAP EQUITY FUND	EQUITY	ADVANCED DISPOSAL SERVICES I	1,349,071.44	49,818	1.06		0
MML SMALL CAP EQUITY FUND	EQUITY	NOBLE MIDSTREAM PARTNERS LP	942,083.05	26,605	0.74		0
MML SMALL CAP EQUITY FUND	EQUITY	BANK OF N.T. BUTTERFIELD+SON	798,592.14	15,399	0.63		0
MML SMALL CAP EQUITY FUND	EQUITY	BLACKLINE INC	1,362,621.10	24,130	1.07		0
MML SMALL CAP EQUITY FUND	EQUITY	EVOQUA WATER TECHNOLOGIES CO	989,812.60	55,670	0.78		0
MML SMALL CAP EQUITY FUND	EQUITY	SENDGRID INC	1,324,771.11	36,009	1.04		0
MML SMALL CAP EQUITY FUND	EQUITY	MANITOWOC COMPANY INC	669,249.03	27,897	0.53		0
MML SMALL CAP EQUITY FUND	EQUITY	ASGN INC	2,424,413.88	30,716	1.90		0
MML SMALL CAP EQUITY FUND	EQUITY	INSPIRE MEDICAL SYSTEMS INC	634,903.04	15,088	0.50		0
MML SMALL CAP EQUITY FUND	EQUITY	PERSPECTA INC	1,274,040.20	49,535	1.00		0
MML SMALL CAP EQUITY FUND	EQUITY	FOCUS FINANCIAL PARTNERS A	710,950.80	14,980	0.56		0
MML SMALL CAP EQUITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	2,511,549.09	2,511,549	1.97	1.1	10/1/2018
MML SMALL CAP EQUITY FUND	EQUITY	SUBURBAN PROPANE PARTNERS LP	1,790,868.30	76,110	1.40		0
MML SMALL CAP EQUITY FUND	EQUITY	BERKSHIRE HILLS BANCORP INC	1,088,725.00	26,750	0.85		0
MML SMALL CAP EQUITY FUND	EQUITY	KORN/FERRY INTERNATIONAL	2,365,046.44	48,031	1.86		0
MML SMALL CAP EQUITY FUND	EQUITY	GREENBRIER COMPANIES INC	1,509,111.00	25,110	1.18		0
MML SMALL CAP EQUITY FUND	EQUITY	HERITAGE FINANCIAL CORP	639,730.00	18,200	0.50		0
MML SMALL CAP EQUITY FUND	EQUITY	UNIVERSAL CORP/VA	1,062,100.00	16,340	0.83		0
MML SMALL CAP EQUITY FUND	EQUITY	BRANDYWINE REALTY TRUST	1,552,978.80	98,790	1.22		0
MML SMALL CAP EQUITY FUND	EQUITY	COLUMBIA BANKING SYSTEM INC	852,164.60	21,980	0.67		0
MML SMALL CAP EQUITY FUND	EQUITY	GENESEE + WYOMING INC CL A	1,427,633.10	15,690	1.12		0
MML SMALL CAP EQUITY FUND	EQUITY	IBERIABANK CORP	1,333,326.50	16,390	1.05		0
MML SMALL CAP EQUITY FUND	EQUITY	MONRO INC	801,792.00	11,520	0.63		0
MML SMALL CAP EQUITY FUND	EQUITY	OCEANFIRST FINANCIAL CORP	1,035,176.60	38,030	0.81		0
MML SMALL CAP EQUITY FUND	EQUITY	QUIDEL CORP	1,060,967.60	16,280	0.83		0
MML SMALL CAP EQUITY FUND	EQUITY	REPLIGEN CORP	1,187,398.60	21,410	0.93		0
MML SMALL CAP EQUITY FUND	EQUITY	STIFEL FINANCIAL CORP	1,323,020.60	25,810	1.04		0
MML SMALL CAP EQUITY FUND	EQUITY	WSFS FINANCIAL CORP	1,585,654.50	33,630	1.24		0
MML SMALL CAP EQUITY FUND	EQUITY	AMEDISYS INC	1,941,878.40	15,540	1.52		0
MML SMALL CAP EQUITY FUND	EQUITY	BLACK HILLS CORP	1,862,946.30	32,070	1.46		0
MML SMALL CAP EQUITY FUND	EQUITY	CACI INTERNATIONAL INC CL A	2,587,491.65	14,051	2.03		0
MML SMALL CAP EQUITY FUND	EQUITY	CHEMICAL FINANCIAL CORP	1,276,366.80	23,902	1.00		0
MML SMALL CAP EQUITY FUND	EQUITY	CHILDREN S PLACE INC/THE	1,945,116.00	15,220	1.53		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP EQUITY FUND	EQUITY	DYCOM INDUSTRIES INC	1,232,622.00	14,570	0.97		0
MML SMALL CAP EQUITY FUND	EQUITY	JACK IN THE BOX INC	1,309,424.60	15,620	1.03		0
MML SMALL CAP EQUITY FUND	EQUITY	MKS INSTRUMENTS INC	1,360,145.50	16,970	1.07		0
MML SMALL CAP EQUITY FUND	EQUITY	NU SKIN ENTERPRISES INC A	1,383,831.80	16,790	1.09		0
MML SMALL CAP EQUITY FUND	EQUITY	ALLEGHENY TECHNOLOGIES INC	1,454,598.75	49,225	1.14		0
MML SMALL CAP EQUITY FUND	CASH	US DOLLAR	0.02	0	0.00		0
MML SMALL CAP EQUITY FUND	EQUITY	NAVISTAR INTERNATIONAL CORP	1,033,340.00	26,840	0.81		0
MML SMALL CAP EQUITY FUND	EQUITY	PACIFIC PREMIER BANCORP INC	624,588.00	16,790	0.49		0
MML SMALL CAP EQUITY FUND	EQUITY	PROASSURANCE CORP	1,267,180.50	26,990	0.99		0
MML SMALL CAP EQUITY FUND	EQUITY	ENPRO INDUSTRIES INC	1,018,832.10	13,970	0.80		0
MML SMALL CAP EQUITY FUND	EQUITY	BROOKS AUTOMATION INC	1,184,364.30	33,810	0.93		0
MML SMALL CAP EQUITY FUND	EQUITY	MOLINA HEALTHCARE INC	945,732.00	6,360	0.74		0
MML SMALL CAP EQUITY FUND	EQUITY	COMPASS MINERALS INTERNATION	1,241,856.00	18,480	0.97		0
MML SMALL CAP EQUITY FUND	EQUITY	TEXAS ROADHOUSE INC	1,651,180.70	23,830	1.30		0
MML SMALL CAP EQUITY FUND	EQUITY	NORTHWESTERN CORP	1,567,395.20	26,720	1.23		0
MML SMALL CAP EQUITY FUND	EQUITY	DIAMONDRICK HOSPITALITY CO	1,890,540.00	162,000	1.48		0
MML SMALL CAP EQUITY FUND	EQUITY	ACCO BRANDS CORP	1,550,021.00	137,170	1.22		0
MML SMALL CAP EQUITY FUND	EQUITY	DORMAN PRODUCTS INC	1,749,930.00	22,750	1.37		0
MML SMALL CAP EQUITY FUND	EQUITY	KAISER ALUMINUM CORP	1,707,334.30	15,655	1.34		0
MML SMALL CAP EQUITY FUND	EQUITY	EMERGENT BIOSOLUTIONS INC	1,306,067.20	19,840	1.02		0
MML SMALL CAP EQUITY FUND	EQUITY	KBR INC	1,519,162.48	71,896	1.19		0
MML SMALL CAP EQUITY FUND	EQUITY	TERADATA CORP	1,263,662.10	33,510	0.99		0
MML SMALL CAP EQUITY FUND	EQUITY	ADDUS HOMECARE CORP	856,671.80	12,212	0.67		0
MML SMALL CAP EQUITY FUND	EQUITY	GENERAC HOLDINGS INC	1,934,298.90	34,290	1.52		0
MML SMALL CAP EQUITY FUND	EQUITY	ENVESTNET INC	852,081.00	13,980	0.67		0
MML SMALL CAP EQUITY FUND	EQUITY	VISTEON CORP	1,806,905.00	19,450	1.42		0
MML SMALL CAP EQUITY FUND	EQUITY	LIGAND PHARMACEUTICALS	1,526,164.40	5,560	1.20		0
MML SMALL CAP EQUITY FUND	EQUITY	BANKUNITED INC	1,235,778.60	34,909	0.97		0
MML SMALL CAP EQUITY FUND	EQUITY	SPIRIT AIRLINES INC	1,398,296.90	29,770	1.10		0
MML SMALL CAP EQUITY FUND	EQUITY	WENDY S CO/THE	1,230,309.20	71,780	0.97		0
MML SMALL CAP EQUITY FUND	EQUITY	J2 GLOBAL INC	1,867,521.85	22,541	1.47		0
MML SMALL CAP EQUITY FUND	EQUITY	ZYNGA INC CL A	2,104,832.96	524,896	1.65		0
MML SMALL CAP EQUITY FUND	EQUITY	THERAPEUTICSMD INC	746,528.00	113,800	0.59		0
MML SMALL CAP EQUITY FUND	EQUITY	RENEWABLE ENERGY GROUP INC	1,697,731.20	58,949	1.33		0
MML SMALL CAP EQUITY FUND	EQUITY	MATADOR RESOURCES CO	2,235,336.75	67,635	1.75		0
MML SMALL CAP EQUITY FUND	EQUITY	YELP INC	2,089,524.00	42,470	1.64		0
MML SMALL CAP EQUITY FUND	EQUITY	REXNORD CORP	1,560,636.00	50,670	1.22		0
MML SMALL CAP EQUITY FUND	EQUITY	CUSTOMERS BANCORP INC	616,956.60	26,220	0.48		0
MML SMALL CAP EQUITY FUND	EQUITY	EPR PROPERTIES	827,076.90	12,090	0.65		0
MML SMALL CAP EQUITY FUND	EQUITY	MASONITE INTERNATIONAL CORP	1,355,266.30	21,143	1.06		0
MML SMALL CAP EQUITY FUND	EQUITY	STERLING BANCORP/DE	1,241,020.00	56,410	0.97		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	REDWOOD TRUST INC	1,050,922.88	64,712	0.95		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TELEDYNE TECHNOLOGIES INC	192,903.76	782	0.17		0
MML SMALL CAP GROWTH EQUITY FUND	CASH	US DOLLAR	6,004.23	6,004	0.01		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	NEW YORK TIMES CO A	1,143,748.90	49,406	1.04		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MINERALS TECHNOLOGIES INC	960,596.00	14,210	0.87		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	POLYONE CORPORATION	780,402.00	17,850	0.71		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ACTUANT CORP A	1,171,130.40	41,976	1.06		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MFA FINANCIAL INC	812,660.10	110,566	0.74		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HMS HOLDINGS CORP	1,355,249.86	41,306	1.23		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MOLINA HEALTHCARE INC	1,319,266.40	8,872	1.19		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TEXAS CAPITAL BANCSHARES INC	980,146.35	11,859	0.89		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ASSURED GUARANTY LTD	1,378,091.59	32,633	1.25	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LHC GROUP INC	1,214,664.06	11,794	1.10	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	POTLATCHDELTIC CORP	939,229.20	22,936	0.85	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	VONAGE HOLDINGS CORP	895,874.88	63,268	0.81	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CHART INDUSTRIES INC	1,473,152.31	18,807	1.33	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CIENA CORP	1,208,144.52	38,673	1.09	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	EHEALTH INC	1,575,721.08	55,758	1.43	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIRST SOLAR INC	1,039,286.88	21,464	0.94	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ARGAN INC	584,800.00	13,600	0.53	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CINEMARK HOLDINGS INC	1,380,870.00	34,350	1.25	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	INSULET CORP	1,941,109.95	18,321	1.76	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TRUEBLUE INC	1,039,551.30	39,906	0.94	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GRAPHIC PACKAGING HOLDING CO	757,590.75	54,075	0.69	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	JOHN BEAN TECHNOLOGIES CORP	1,451,523.10	12,167	1.31	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	KENNEDY WILSON HOLDINGS INC	1,107,938.00	51,532	1.00	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIRST INTERSTATE BANCYSYS A	1,104,544.00	24,655	1.00	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	AIR LEASE CORP	1,304,643.68	28,436	1.18	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SPIRIT AIRLINES INC	1,165,654.49	24,817	1.06	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	KEMPER CORP	1,114,473.85	13,853	1.01	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MIMEDX GROUP INC	328,887.24	53,218	0.30	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GLOBUS MEDICAL INC A	1,363,999.56	24,031	1.23	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	NATIONAL BANK HOLD CL A	1,122,045.30	29,802	1.02	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BLUEPRINT MEDICINES CORP	621,513.72	7,962	0.56		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TELADOC HEALTH INC	533,815.70	6,182	0.48		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LINDBLAD EXPEDITIONS HOLDING	1,238,373.60	83,280	1.12		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SPX FLOW INC	1,193,816.00	22,958	1.08		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PERFORMANCE FOOD GROUP CO	1,367,964.00	41,080	1.24		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BMC STOCK HOLDINGS INC	910,399.75	48,815	0.82		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ACACIA COMMUNICATIONS INC	620,674.11	15,003	0.56		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TWILIO INC A	1,146,833.76	13,292	1.04		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CARDTRONICS PLC A	1,076,266.24	34,016	0.97		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LIFE STORAGE INC	1,068,741.96	11,231	0.97		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIRSTCASH INC	1,223,112.00	14,916	1.11		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ACUSHNET HOLDINGS CORP	1,193,781.03	43,521	1.08		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CRISPR THERAPEUTICS AG	367,262.35	8,281	0.33		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CLOUDERA INC	1,200,341.20	68,008	1.09		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIVE POINT HOLDINGS LLC CL A	443,681.50	47,150	0.40		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	DELEK US HOLDINGS INC	794,586.61	18,727	0.72		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BANCORPSOUTH BANK	1,245,935.40	38,102	1.13		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SAILPOINT TECHNOLOGIES HOLDI	1,133,920.62	33,331	1.03		0
MML SMALL CAP GROWTH EQUITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,387,819.63	1,387,820	1.26	1.1	10/1/2018
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIRST FINANCIAL BANCORP	1,062,606.60	35,778	0.96		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LIFEPOINT HEALTH INC	1,090,292.00	16,930	0.99		0
MML SMALL CAP GROWTH EQUITY FUND	CASH	POUND STERLING	6.50	5	0.00		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CARPENTER TECHNOLOGY	1,564,061.40	26,532	1.42		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GATX CORP	848,928.36	9,804	0.77		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TENNECO INC CLASS A	1,065,214.92	25,278	0.96		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TIMKEN CO	735,885.70	14,762	0.67		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CALLON PETROLEUM CO	1,222,296.57	101,943	1.11		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CLEAN HARBORS INC	1,235,757.12	17,264	1.12		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	DECKERS OUTDOOR CORP	881,405.14	7,433	0.80		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LA Z BOY INC	1,171,538.40	37,074	1.06		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SKYLINE CHAMPION CORP	904,097.65	31,645	0.82		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	WATTS WATER TECHNOLOGIES A	1,123,405.00	13,535	1.02		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	AMEDISYS INC	1,158,754.08	9,273	1.05		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BLACK HILLS CORP	1,069,959.71	18,419	0.97		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CHEESECAKE FACTORY INC/THE	1,006,123.68	18,792	0.91		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CHICO S FAS INC	908,416.59	104,777	0.82		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CHILDREN S PLACE INC/THE	370,620.00	2,900	0.34		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	COHU INC	1,137,933.60	45,336	1.03		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FERRO CORP	1,309,909.86	56,413	1.19		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HAEMONETICS CORP/MASS	1,287,764.62	11,239	1.17		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HORACE MANN EDUCATORS	934,952.70	20,823	0.85		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	KIRBY CORP	1,322,497.75	16,079	1.20		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	NU SKIN ENTERPRISES INC A	1,051,184.68	12,754	0.95		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PS BUSINESS PARKS INC/CA	1,096,024.16	8,624	0.99		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SHUTTERFLY INC	1,296,583.42	19,678	1.15		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ALTRA INDUSTRIAL MOTION CORP	679,756.70	16,459	0.60		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	INSULET CORP	2,567,698.25	24,235	2.28		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	AMICUS THERAPEUTICS INC	439,024.17	36,313	0.39		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HILL ROM HOLDINGS INC	1,226,728.00	12,995	1.09		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	KENNEDY WILSON HOLDINGS INC	1,084,116.00	50,424	0.96		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	IRONWOOD PHARMACEUTICALS INC	457,272.66	24,771	0.41		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GREEN DOT CORP CLASS A	954,992.64	10,752	0.85		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BOINGO WIRELESS INC	932,877.00	26,730	0.83	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GALAPAGOS NV SPON ADR	526,734.55	4,685	0.47	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CARBONITE INC	956,418.20	26,828	0.85	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	
MML ASSET MOMENTUM FUND	EQUITY	ADOBE INC	647,880.00	2,400	2.11	0	
MML ASSET MOMENTUM FUND	EQUITY	HALMA PLC	331,221.55	17,600	1.08	0	
MML ASSET MOMENTUM FUND	EQUITY	JPMORGAN CHASE + CO	293,384.00	2,600	0.95	0	
MML ASSET MOMENTUM FUND	EQUITY	RAYTHEON COMPANY	1,632,614.00	7,900	5.31	0	
MML ASSET MOMENTUM FUND	EQUITY	ISHARES MSCI BRAZIL ETF	1,214,280.00	36,000	3.95	0	
MML ASSET MOMENTUM FUND	EQUITY	VANGUARD TOTAL STOCK MARKET ET	3,322,230.00	22,200	10.80	0	
MML ASSET MOMENTUM FUND	EQUITY	REGIONS FINANCIAL CORP	278,920.00	15,200	0.91	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	NIGHTSTAR THERAPEUTICS PLC	605,851.65	29,655	0.54	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	RHYTHM PHARMACEUTICALS INC	364,625.00	12,500	0.32	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BANCORPSOUTH BANK	1,105,979.40	33,822	0.98	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SLEEP NUMBER CORP	888,089.88	24,146	0.79	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SENDGRID INC	978,945.11	26,609	0.87	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	STITCH FIX INC CLASS A	973,794.96	22,248	0.87	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SYNEOS HEALTH INC	1,229,415.95	23,849	1.09	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ZUORA INC.	606,082.86	26,226	0.54	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	LIVERAMP HOLDINGS INC	1,315,936.53	26,633	1.17	0	
MML SMALL CAP GROWTH EQUITY FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,424,500.61	1,424,501	1.27	1.1	10/1/2018
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	VERACODE INC PP	42,965.76	10,688	0.04	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	DOCUSIGN SERIES E F ESCROW S	5,852.25	2,601	0.01	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	INGEVITY CORP	975,704.76	9,577	0.87	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ITT INC	1,799,573.76	29,376	1.60	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SITEONE LANDSCAPE SUPPLY INC	672,710.86	8,929	0.60	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FLOOR + DECOR HOLDINGS INC A	1,079,874.81	35,793	0.96	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	EVERBRIDGE INC	896,186.72	15,548	0.80	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	WAYFAIR INC CLASS A	1,133,810.26	7,678	1.01	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HUBSPOT INC	1,105,557.80	7,324	0.98	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PRA HEALTH SCIENCES INC	1,738,247.25	15,775	1.54	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	DRAFTKINGS INC PP	201,170.48	78,904	0.18	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SPARK THERAPEUTICS INC	453,092.30	8,306	0.40	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	XENIA HOTELS + RESORTS INC	1,074,012.90	45,317	0.95	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ETSY INC	1,211,489.02	23,579	1.08	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MARKLOGIC CORPORATION	229,200.68	22,966	0.20	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	BLUEPRINT MEDICINES CORP	772,169.52	9,892	0.69	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	WINGSTOP INC	798,144.57	11,691	0.71	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ABEONA THERAPEUTICS INC	417,344.00	32,605	0.37	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	/US/99Z03QI47 HONEST CO/THE	150,327.91	4,027	0.13	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PLANET FITNESS INC CL A	1,811,679.93	33,531	1.61	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	SPX FLOW INC	1,477,476.00	28,413	1.31	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	REGENXBIO INC	617,363.50	8,177	0.55	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PENUMBRA INC	558,830.10	3,733	0.50	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PERFORMANCE FOOD GROUP CO	1,371,060.90	41,173	1.22	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MYOKARDIA INC	830,322.00	12,735	0.74	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	MIMECAST LTD	1,671,849.60	39,920	1.49	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ONEMAIN HOLDINGS INC	846,837.56	25,196	0.75	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	UNDER ARMOUR INC CLASS C	1,138,604.60	58,510	1.01	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GUIDEWIRE SOFTWARE INC	759,292.17	7,517	0.67	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	EPAM SYSTEMS INC	874,945.80	6,354	0.78	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	YELP INC	313,059.60	6,363	0.28	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	REXNORD CORP	1,145,544.40	37,193	1.02	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PROOFPOINT INC	468,596.31	4,407	0.42	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	FIVE BELOW	798,308.28	6,138	0.71	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	GLOBUS MEDICAL INC A	1,263,818.16	22,266	1.12	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TRI POINTE GROUP INC	50,480.40	4,071	0.04	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	HANNON ARMSTRONG SUSTAINABLE	933,537.07	43,481	0.83	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	PORTOLA PHARMACEUTICALS INC	320,385.53	12,031	0.28	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	VEEVA SYSTEMS INC CLASS A	954,136.68	8,764	0.85	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	AERIE PHARMACEUTICALS INC	1,114,424.30	18,106	0.99	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	STERLING BANCORP/DE	1,099,582.00	49,981	0.98	0	
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	KARYOPHARM THERAPEUTICS INC	508,720.16	29,872	0.45	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	TEXAS CAPITAL BANCSHARES INC	1,011,305.40	12,236	0.90		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	ENERSYS	1,360,360.69	15,613	1.21		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	DEXCOM INC	1,022,879.04	7,151	0.91		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	UNDER ARMOUR INC CLASS A	178,757.28	8,424	0.16		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	CENTERSTATE BANK CORP	979,001.10	34,902	0.87		0
MML SMALL CAP GROWTH EQUITY FUND	EQUITY	VONAGE HOLDINGS CORP	985,054.56	69,566	0.88		0
MML SMALL COMPANY VALUE FUND	EQUITY	STRATEGIC EDUCATION INC	1,141,596.93	8,331	1.03		0
MML SMALL COMPANY VALUE FUND	EQUITY	SVMK INC	29,126.51	1,817	0.03		0
MML SMALL COMPANY VALUE FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,877,135.95	1,877,136	1.70	1.1	10/1/2018
MML SMALL COMPANY VALUE FUND	EQUITY	GTT COMMUNICATIONS INC	607,600.00	14,000	0.55		0
MML SMALL COMPANY VALUE FUND	EQUITY	ONE GAS INC	1,250,656.00	15,200	1.13		0
MML SMALL COMPANY VALUE FUND	EQUITY	KNOWLES CORP	722,970.00	43,500	0.65		0
MML SMALL COMPANY VALUE FUND	EQUITY	MSA SAFETY INC	542,844.00	5,100	0.49		0
MML SMALL COMPANY VALUE FUND	EQUITY	Q2 HOLDINGS INC	472,290.00	7,800	0.43		0
MML SMALL COMPANY VALUE FUND	EQUITY	UNITED FINANCIAL BANCORP INC	637,857.00	37,900	0.58		0
MML SMALL COMPANY VALUE FUND	EQUITY	ZENDESK INC	482,800.00	6,800	0.44		0
MML SMALL COMPANY VALUE FUND	EQUITY	SPARTANNASH CO	330,990.00	16,500	0.30		0
MML SMALL COMPANY VALUE FUND	EQUITY	MERIDIAN BANCORP INC	459,000.00	27,000	0.42		0
MML SMALL COMPANY VALUE FUND	EQUITY	HOWARD BANCORP INC	287,483.40	16,242	0.26		0
MML SMALL COMPANY VALUE FUND	EQUITY	BOOT BARN HOLDINGS INC	328,419.60	11,560	0.30		0
MML SMALL COMPANY VALUE FUND	EQUITY	BENEFICIAL BANCORP INC	676,388.70	40,023	0.61		0
MML SMALL COMPANY VALUE FUND	EQUITY	BLUE BIRD CORP	401,800.00	16,400	0.36		0
MML SMALL COMPANY VALUE FUND	EQUITY	PARTY CITY HOLDCO INC	403,180.25	29,755	0.37		0
MML SMALL COMPANY VALUE FUND	EQUITY	NOMAD FOODS LTD	1,375,654.00	67,900	1.25		0
MML SMALL COMPANY VALUE FUND	EQUITY	TERRENO REALTY CORP	908,570.00	24,100	0.82		0
MML SMALL COMPANY VALUE FUND	EQUITY	MAXLINEAR INC	383,684.00	19,300	0.35		0
MML SMALL COMPANY VALUE FUND	EQUITY	EXPRESS INC	422,492.00	38,200	0.38		0
MML SMALL COMPANY VALUE FUND	EQUITY	CBOE GLOBAL MARKETS INC	357,067.16	3,721	0.32		0
MML SMALL COMPANY VALUE FUND	EQUITY	GREEN DOT CORP CLASS A	1,739,095.60	19,580	1.58		0
MML SMALL COMPANY VALUE FUND	EQUITY	REALPAGE INC	401,990.00	6,100	0.36		0
MML SMALL COMPANY VALUE FUND	EQUITY	VISTEON CORP	176,510.00	1,900	0.16		0
MML SMALL COMPANY VALUE FUND	EQUITY	BANKUNITED INC	1,104,480.00	31,200	1.00		0
MML SMALL COMPANY VALUE FUND	EQUITY	THERMON GROUP HOLDINGS INC	417,636.00	16,200	0.38		0
MML SMALL COMPANY VALUE FUND	EQUITY	KOSMOS ENERGY LTD	407,660.00	43,600	0.37		0
MML SMALL COMPANY VALUE FUND	EQUITY	AEGION CORP	837,540.00	33,000	0.76		0
MML SMALL COMPANY VALUE FUND	EQUITY	MARRIOTT VACATIONS WORLD	383,526.00	3,432	0.35		0
MML SMALL COMPANY VALUE FUND	EQUITY	WPX ENERGY INC	1,225,308.00	60,900	1.11		0
MML SMALL COMPANY VALUE FUND	EQUITY	POST HOLDINGS INC	735,300.00	7,500	0.67		0
MML SMALL COMPANY VALUE FUND	EQUITY	MATADOR RESOURCES CO	1,179,885.00	35,700	1.07		0
MML SMALL COMPANY VALUE FUND	EQUITY	POPULAR INC	1,137,750.00	22,200	1.03		0
MML SMALL COMPANY VALUE FUND	EQUITY	NATIONAL BANK HOLD CL A	945,015.00	25,100	0.86		0
MML SMALL COMPANY VALUE FUND	EQUITY	CONSTELLUM NV CLASS A	433,485.00	35,100	0.39		0
MML SMALL COMPANY VALUE FUND	EQUITY	FRANK S INTERNATIONAL NV	907,928.00	104,600	0.82		0
MML SMALL COMPANY VALUE FUND	EQUITY	ENSIGN GROUP INC/THE	917,664.00	24,200	0.83		0
MML SMALL COMPANY VALUE FUND	EQUITY	HILLENBRAND INC	477,499.00	9,130	0.43		0
MML SMALL COMPANY VALUE FUND	EQUITY	CLEARWATER PAPER CORP	276,210.00	9,300	0.25		0
MML SMALL COMPANY VALUE FUND	EQUITY	VIRTUS INVESTMENT PARTNERS	364,000.00	3,200	0.33		0
MML SMALL COMPANY VALUE FUND	EQUITY	ROSETTA STONE INC	381,331.08	19,172	0.35		0
MML SMALL COMPANY VALUE FUND	EQUITY	SELECT MEDICAL HOLDINGS CORP	702,880.00	38,200	0.64		0
MML SMALL COMPANY VALUE FUND	EQUITY	STEVEN MADDEN LTD	767,050.00	14,500	0.69		0
MML SMALL COMPANY VALUE FUND	EQUITY	MYERS INDUSTRIES INC	932,185.50	40,094	0.84		0
MML SMALL COMPANY VALUE FUND	EQUITY	NAVIGANT CONSULTING INC	442,752.00	19,200	0.40		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL COMPANY VALUE FUND	EQUITY	STERICYCLE INC	217,116.00	3,700	0.20		0
MML SMALL COMPANY VALUE FUND	EQUITY	SUN HYDRAULICS CORP	605,264.22	11,049	0.55		0
MML SMALL COMPANY VALUE FUND	EQUITY	CREE INC	257,516.00	6,800	0.23		0
MML SMALL COMPANY VALUE FUND	EQUITY	EASTGROUP PROPERTIES INC	965,762.00	10,100	0.87		0
MML SMALL COMPANY VALUE FUND	EQUITY	HARMONIC INC	730,020.50	132,731	0.66		0
MML SMALL COMPANY VALUE FUND	EQUITY	HEALTHCARE REALTY TRUST INC	795,872.00	27,200	0.72		0
MML SMALL COMPANY VALUE FUND	EQUITY	KILROY REALTY CORP	544,844.00	7,600	0.49		0
MML SMALL COMPANY VALUE FUND	EQUITY	PS BUSINESS PARKS INC/CA	698,995.00	5,500	0.63		0
MML SMALL COMPANY VALUE FUND	EQUITY	WASHINGTON REIT	591,545.00	19,300	0.54		0
MML SMALL COMPANY VALUE FUND	EQUITY	WEBSTER FINANCIAL CORP	823,966.00	13,975	0.75		0
MML SMALL COMPANY VALUE FUND	EQUITY	MINERALS TECHNOLOGIES INC	574,600.00	8,500	0.52		0
MML SMALL COMPANY VALUE FUND	EQUITY	PROASSURANCE CORP	769,980.00	16,400	0.70		0
MML SMALL COMPANY VALUE FUND	EQUITY	PNM RESOURCES INC	1,065,150.00	27,000	0.96		0
MML SMALL COMPANY VALUE FUND	EQUITY	RED ROBIN GOURMET BURGERS	260,975.00	6,500	0.24		0
MML SMALL COMPANY VALUE FUND	EQUITY	MGE ENERGY INC	332,020.00	5,200	0.30		0
MML SMALL COMPANY VALUE FUND	EQUITY	SAFETY INSURANCE GROUP INC	439,040.00	4,900	0.40		0
MML SMALL COMPANY VALUE FUND	EQUITY	CAVCO INDUSTRIES INC	1,290,300.00	5,100	1.17		0
MML SMALL COMPANY VALUE FUND	EQUITY	MOLINA HEALTHCARE INC	1,100,380.00	7,400	1.00		0
MML SMALL COMPANY VALUE FUND	EQUITY	TEXAS CAPITAL BANCSHARES INC	768,645.00	9,300	0.70		0
MML SMALL COMPANY VALUE FUND	EQUITY	CEDAR REALTY TRUST INC	713,912.00	153,200	0.65		0
MML SMALL COMPANY VALUE FUND	EQUITY	ASSURED GUARANTY LTD	560,898.86	13,282	0.51		0
MML SMALL COMPANY VALUE FUND	EQUITY	PINNACLE FINANCIAL PARTNERS	445,110.00	7,400	0.40		0
MML SMALL COMPANY VALUE FUND	EQUITY	MOMENTA PHARMACEUTICALS INC	241,960.00	9,200	0.22		0
MML SMALL COMPANY VALUE FUND	EQUITY	BELDEN INC	1,303,946.60	18,260	1.18		0
MML SMALL COMPANY VALUE FUND	EQUITY	AMERICAN CAMPUS COMMUNITIES	514,500.00	12,500	0.47		0
MML SMALL COMPANY VALUE FUND	EQUITY	BEACON ROOFING SUPPLY INC	542,850.00	15,000	0.49		0
MML SMALL COMPANY VALUE FUND	EQUITY	HURON CONSULTING GROUP INC	188,510.40	3,816	0.17		0
MML SMALL COMPANY VALUE FUND	EQUITY	SUNSTONE HOTEL INVESTORS INC	804,912.00	49,200	0.73		0
MML SMALL COMPANY VALUE FUND	EQUITY	NORTHWESTERN CORP	756,714.00	12,900	0.69		0
MML SMALL COMPANY VALUE FUND	EQUITY	UNIVERSAL LOGISTICS HOLDINGS	592,480.00	16,100	0.54		0
MML SMALL COMPANY VALUE FUND	EQUITY	SVB FINANCIAL GROUP	792,616.50	2,550	0.72		0
MML SMALL COMPANY VALUE FUND	EQUITY	RBC BEARINGS INC	796,908.00	5,300	0.72		0
MML SMALL COMPANY VALUE FUND	EQUITY	POTLATCHDELTIC CORP	589,680.00	14,400	0.53		0
MML SMALL COMPANY VALUE FUND	EQUITY	CABLE ONE INC	887,144.44	1,004	0.80		0
MML SMALL COMPANY VALUE FUND	EQUITY	ENERGIZER HOLDINGS INC	510,255.00	8,700	0.46		0
MML SMALL COMPANY VALUE FUND	EQUITY	LIVE OAK BANCSHARES INC	346,309.60	12,922	0.31		0
MML SMALL COMPANY VALUE FUND	EQUITY	HOULIHAN LOKEY INC	472,933.18	10,526	0.43		0
MML SMALL COMPANY VALUE FUND	EQUITY	ATLANTIC CAPITAL BANCSHARES	311,918.50	18,622	0.28		0
MML SMALL COMPANY VALUE FUND	EQUITY	HOPE BANCORP INC	514,206.00	31,800	0.47		0
MML SMALL COMPANY VALUE FUND	EQUITY	RETAIL OPPORTUNITY INVESTMEN	375,267.00	20,100	0.34		0
MML SMALL COMPANY VALUE FUND	EQUITY	LUMBER LIQUIDATORS HOLDINGS	408,254.44	26,356	0.37		0
MML SMALL COMPANY VALUE FUND	EQUITY	FB FINANCIAL CORP	617,085.00	15,750	0.56		0
MML SMALL COMPANY VALUE FUND	EQUITY	CENTENNIAL RESOURCE DEVELO A	1,225,785.00	56,100	1.11		0
MML SMALL COMPANY VALUE FUND	EQUITY	CONDUENT INC	839,996.00	37,300	0.76		0
MML SMALL COMPANY VALUE FUND	EQUITY	INTERNATIONAL SEAWAYS INC	526,526.00	26,300	0.48		0
MML SMALL COMPANY VALUE FUND	EQUITY	LCI INDUSTRIES	538,200.00	6,500	0.49		0
MML SMALL COMPANY VALUE FUND	EQUITY	KEANE GROUP INC	609,494.64	49,272	0.55		0
MML SMALL COMPANY VALUE FUND	EQUITY	JAGGED PEAK ENERGY INC	462,502.86	33,442	0.42		0
MML SMALL COMPANY VALUE FUND	EQUITY	PCSB FINANCIAL CORP	382,656.42	18,813	0.35		0
MML SMALL COMPANY VALUE FUND	EQUITY	JBG SMITH PROPERTIES	674,983.41	18,327	0.61		0
MML SMALL COMPANY VALUE FUND	EQUITY	CISION LTD	657,972.00	39,165	0.60		0
MML SMALL COMPANY VALUE FUND	EQUITY	SIMPLY GOOD FOODS CO/THE	41,117.70	4,866	0.04		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL COMPANY VALUE FUND	EQUITY	SIMPLY GOOD FOODS CO/THE	493,174.20	25,356	0.45	0	
MML SMALL COMPANY VALUE FUND	EQUITY	PDL COMMUNITY BANCORP	283,826.24	18,784	0.26	0	
MML SMALL COMPANY VALUE FUND	EQUITY	STERLING BANCORP INC/MI	237,758.82	21,022	0.22	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CERIDIAN HCM HOLDING INC	354,312.90	8,430	0.32	0	
MML SMALL COMPANY VALUE FUND	EQUITY	ORIGIN BANCORP INC	312,495.00	8,300	0.28	0	
MML SMALL COMPANY VALUE FUND	EQUITY	BJ S WHOLESALE CLUB HOLDINGS	229,156.46	8,557	0.21	0	
MML SMALL COMPANY VALUE FUND	EQUITY	AVANOS MEDICAL INC	1,308,350.00	19,100	1.18	0	
MML SMALL COMPANY VALUE FUND	EQUITY	FOCUS FINANCIAL PARTNERS A	141,525.72	2,982	0.13	0	
MML SMALL COMPANY VALUE FUND	EQUITY	BLOOM ENERGY CORP A	76,066.56	2,232	0.07	0	
MML SMALL COMPANY VALUE FUND	EQUITY	KMG CHEMICALS INC	1,064,187.04	14,084	0.96	0	
MML SMALL COMPANY VALUE FUND	CASH EQUIVALENT	ROWE T PRICE GOV RES FD	1,030.31	1,030	0.00	0.01	9/19/2034
MML SMALL COMPANY VALUE FUND	EQUITY	ACADIA REALTY TRUST	462,495.00	16,500	0.42	0	
MML SMALL COMPANY VALUE FUND	EQUITY	PROSPERITY BANCSHARES INC	846,070.00	12,200	0.77	0	
MML SMALL COMPANY VALUE FUND	EQUITY	HERITAGE COMMERCE CORP	340,176.00	22,800	0.31	0	
MML SMALL COMPANY VALUE FUND	EQUITY	RGC RESOURCES INC	108,549.44	4,064	0.10	0	
MML SMALL COMPANY VALUE FUND	EQUITY	RUDOLPH TECHNOLOGIES INC	273,840.00	11,200	0.25	0	
MML SMALL COMPANY VALUE FUND	EQUITY	WINTRUST FINANCIAL CORP	883,376.00	10,400	0.80	0	
MML SMALL COMPANY VALUE FUND	EQUITY	SCHOLASTIC CORP	396,865.00	8,500	0.36	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CABOT MICROELECTRONICS CORP	629,337.00	6,100	0.57	0	
MML SMALL COMPANY VALUE FUND	EQUITY	AMERICAN VANGUARD CORP	327,600.00	18,200	0.30	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CALIFORNIA WATER SERVICE GRP	493,350.00	11,500	0.45	0	
MML SMALL COMPANY VALUE FUND	EQUITY	HERITAGE FINANCIAL CORP	602,717.05	17,147	0.55	0	
MML SMALL COMPANY VALUE FUND	EQUITY	MCGRATH RENTCORP	659,032.53	12,099	0.60	0	
MML SMALL COMPANY VALUE FUND	EQUITY	WEST PHARMACEUTICAL SERVICES	777,861.00	6,300	0.70	0	
MML SMALL COMPANY VALUE FUND	EQUITY	BRADY CORPORATION CL A	468,125.00	10,700	0.42	0	
MML SMALL COMPANY VALUE FUND	EQUITY	COBIZ FINANCIAL INC	830,250.00	37,500	0.75	0	
MML SMALL COMPANY VALUE FUND	EQUITY	GLACIER BANCORP INC	999,688.00	23,200	0.91	0	
MML SMALL COMPANY VALUE FUND	EQUITY	MATTHEWS INTL CORP CLASS A	396,185.00	7,900	0.36	0	
MML SMALL COMPANY VALUE FUND	EQUITY	METHODE ELECTRONICS INC	438,020.00	12,100	0.40	0	
MML SMALL COMPANY VALUE FUND	EQUITY	SAUL CENTERS INC	554,400.00	9,900	0.50	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CARPENTER TECHNOLOGY	949,095.00	16,100	0.86	0	
MML SMALL COMPANY VALUE FUND	EQUITY	RADIAN GROUP INC	797,862.00	38,600	0.72	0	
MML SMALL COMPANY VALUE FUND	EQUITY	SCANA CORP	318,898.00	8,200	0.29	0	
MML SMALL COMPANY VALUE FUND	EQUITY	ATRION CORPORATION	1,316,646.00	1,895	1.19	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CSS INDUSTRIES INC	204,812.39	14,393	0.19	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CHESAPEAKE UTILITIES CORP	1,132,650.00	13,500	1.03	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CIRCOR INTERNATIONAL INC	710,077.50	14,949	0.64	0	
MML SMALL COMPANY VALUE FUND	EQUITY	COLUMBIA BANKING SYSTEM INC	1,000,266.00	25,800	0.91	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CUBIC CORP	854,685.00	11,700	0.77	0	
MML SMALL COMPANY VALUE FUND	EQUITY	CULP INC	319,440.00	13,200	0.29	0	
MML SMALL COMPANY VALUE FUND	EQUITY	ESCO TECHNOLOGIES INC	830,210.00	12,200	0.75	0	
MML SMALL COMPANY VALUE FUND	EQUITY	FTI CONSULTING INC	914,875.00	12,500	0.83	0	
MML SMALL COMPANY VALUE FUND	EQUITY	GENESEE + WYOMING INC CL A	814,360.50	8,950	0.74	0	
MML SMALL COMPANY VALUE FUND	EQUITY	LYDALL INC	366,350.00	8,500	0.33	0	
MML SMALL COMPANY VALUE FUND	EQUITY	MESA LABORATORIES INC	445,488.00	2,400	0.40	0	
MML SMALL COMPANY VALUE FUND	EQUITY	MONRO INC	125,280.00	1,800	0.11	0	
MML SMALL COMPANY VALUE FUND	EQUITY	OCEANEERING INTL INC	690,000.00	25,000	0.62	0	
MML SMALL COMPANY VALUE FUND	EQUITY	PRICESMART INC	526,175.00	6,500	0.48	0	
MML SMALL COMPANY VALUE FUND	EQUITY	QUIDEL CORP	1,459,808.00	22,400	1.32	0	
MML SMALL COMPANY VALUE FUND	EQUITY	RELIANCE STEEL + ALUMINUM	417,921.00	4,900	0.38	0	
MML SMALL COMPANY VALUE FUND	EQUITY	SOUTH JERSEY INDUSTRIES	478,437.55	13,565	0.43	0	
MML SMALL COMPANY VALUE FUND	EQUITY	STATE AUTO FINANCIAL CORP	467,262.00	15,300	0.42	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL COMPANY VALUE FUND	EQUITY	TETRA TECHNOLOGIES INC	633,204.00	140,400	0.57		0
MML SMALL COMPANY VALUE FUND	EQUITY	TRIUMPH GROUP INC	902,875.00	38,750	0.82		0
MML SMALL COMPANY VALUE FUND	EQUITY	UNIVERSAL FOREST PRODUCTS	650,072.00	18,400	0.59		0
MML SMALL COMPANY VALUE FUND	EQUITY	WSFS FINANCIAL CORP	608,235.00	12,900	0.55		0
MML SMALL COMPANY VALUE FUND	EQUITY	CROCS INC	451,348.00	21,200	0.41		0
MML SMALL COMPANY VALUE FUND	EQUITY	PORTLAND GENERAL ELECTRIC CO	529,076.00	11,600	0.48		0
MML SMALL COMPANY VALUE FUND	EQUITY	POOL CORP	1,051,344.00	6,300	0.95		0
MML SMALL COMPANY VALUE FUND	EQUITY	DORMAN PRODUCTS INC	792,276.00	10,300	0.72		0
MML SMALL COMPANY VALUE FUND	EQUITY	HOME BANCSHARES INC	1,805,655.00	82,450	1.64		0
MML SMALL COMPANY VALUE FUND	EQUITY	DOUGLAS EMMETT INC	490,360.00	13,000	0.44		0
MML SMALL COMPANY VALUE FUND	EQUITY	NEW GOLD INC	87,580.32	110,400	0.08		0
MML SMALL COMPANY VALUE FUND	EQUITY	TOWNE BANK	984,115.00	31,900	0.89		0
MML SMALL COMPANY VALUE FUND	EQUITY	EMPLOYERS HOLDINGS INC	539,070.00	11,900	0.49		0
MML SMALL COMPANY VALUE FUND	EQUITY	AMERICAN PUBLIC EDUCATION	522,190.00	15,800	0.47		0
MML SMALL COMPANY VALUE FUND	EQUITY	AARON S INC	1,290,702.00	23,700	1.17		0
MML SMALL COMPANY VALUE FUND	EQUITY	ATMOS ENERGY CORP	601,024.00	6,400	0.54		0
MML SMALL COMPANY VALUE FUND	EQUITY	EAST WEST BANCORP INC	810,527.62	13,426	0.73		0
MML SMALL COMPANY VALUE FUND	EQUITY	HAEMONETICS CORP/MASS	549,984.00	4,800	0.50		0
MML SMALL COMPANY VALUE FUND	EQUITY	KIRBY CORP	456,487.50	5,550	0.41		0
MML SMALL COMPANY VALUE FUND	EQUITY	LANDSTAR SYSTEM INC	1,415,200.00	11,600	1.28		0
MML SMALL COMPANY VALUE FUND	EQUITY	LITTELFUSE INC	1,642,487.00	8,300	1.49		0
MML SMALL/MID CAP VALUE FUND	EQUITY	PORTLAND GENERAL ELECTRIC CO	1,940,705.50	42,550	0.89		0
MML SMALL/MID CAP VALUE FUND	EQUITY	MELLANOX TECHNOLOGIES LTD	959,991.50	13,070	0.44		0
MML SMALL/MID CAP VALUE FUND	EQUITY	AECOM	1,786,273.38	54,693	0.82		0
MML SMALL/MID CAP VALUE FUND	EQUITY	INFINERA CORP	996,523.00	136,510	0.46		0
MML SMALL/MID CAP VALUE FUND	EQUITY	GENPACT LTD	3,065,805.77	100,157	1.40		0
MML SMALL/MID CAP VALUE FUND	EQUITY	GRAPHIC PACKAGING HOLDING CO	2,501,065.20	178,520	1.14		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SIGNET JEWELERS LTD	2,842,901.60	43,120	1.30		0
MML SMALL/MID CAP VALUE FUND	EQUITY	REINSURANCE GROUP OF AMERICA	3,858,306.40	26,690	1.76		0
MML SMALL/MID CAP VALUE FUND	EQUITY	TUTOR PERINI CORP	1,637,104.00	87,080	0.75		0
MML SMALL/MID CAP VALUE FUND	EQUITY	FINISAR CORPORATION	2,333,053.50	122,470	1.07		0
MML SMALL/MID CAP VALUE FUND	EQUITY	LEAR CORP	1,196,540.00	8,252	0.55		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SKECHERS USA INC CL A	1,343,991.60	48,120	0.61		0
MML SMALL/MID CAP VALUE FUND	EQUITY	HUNTINGTON BANCSHARES INC	2,032,178.60	136,205	0.93		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SCHOLASTIC CORP	1,315,257.30	28,170	0.60		0
MML SMALL/MID CAP VALUE FUND	EQUITY	LIFEPOINT HEALTH INC	2,742,152.00	42,580	1.25		0
MML SMALL/MID CAP VALUE FUND	EQUITY	COMERICA INC	2,671,724.00	29,620	1.22		0
MML SMALL/MID CAP VALUE FUND	EQUITY	ASSOCIATED BANC CORP	2,291,562.00	88,137	1.05		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SOTHEBY S	2,350,298.20	47,780	1.08		0
MML SMALL/MID CAP VALUE FUND	EQUITY	COTT CORPORATION	2,561,180.05	158,587	1.17		0
MML SMALL/MID CAP VALUE FUND	EQUITY	NOMAD FOODS LTD	2,729,022.00	134,700	1.25		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SPX FLOW INC	1,435,668.00	27,609	0.66		0
MML SMALL/MID CAP VALUE FUND	EQUITY	ONEMAIN HOLDINGS INC	1,746,711.70	51,970	0.80		0
MML SMALL/MID CAP VALUE FUND	EQUITY	BMC STOCK HOLDINGS INC	1,319,301.00	70,740	0.60		0
MML SMALL/MID CAP VALUE FUND	EQUITY	US FOODS HOLDING CORP	2,390,707.40	77,570	1.09		0
MML SMALL/MID CAP VALUE FUND	EQUITY	ALCOA CORP	2,562,168.00	63,420	1.17		0
MML SMALL/MID CAP VALUE FUND	EQUITY	GRAMERCY PROPERTY TRUST	1,435,057.12	52,298	0.66		0
MML SMALL/MID CAP VALUE FUND	EQUITY	SRC ENERGY INC	1,959,800.50	220,450	0.90		0
MML SMALL/MID CAP VALUE FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,835,372.74	3,835,373	1.75	1.1	10/1/2018
MML SMALL/MID CAP VALUE FUND	EQUITY	OASIS PETROLEUM INC	2,907,892.60	205,070	1.33		0
MML SMALL/MID CAP VALUE FUND	EQUITY	FIRST AMERICAN FINANCIAL	1,954,229.20	37,880	0.89		0
MML SMALL/MID CAP VALUE FUND	EQUITY	HOUGHTON MIFFLIN HARCOURT CO	1,018,920.00	145,560	0.47		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL/MID CAP VALUE FUND	EQUITY	SYNOVUS FINANCIAL CORP	2,168,156.50	47,350	0.99	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	TRINSEO SA	2,703,699.00	34,530	1.24	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	MICHAELS COS INC/THE	1,721,840.70	106,090	0.79	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ORION ENGINEERED CARBONS SA	1,732,758.00	53,980	0.79	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	QORVO INC	1,338,885.57	17,413	0.61	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	MAXLINEAR INC	1,422,592.92	71,559	0.65	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	COOPER STANDARD HOLDING	2,342,849.46	19,527	1.07	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SM ENERGY CO	2,802,701.70	88,890	1.28	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	QEP RESOURCES INC	3,127,602.80	276,290	1.43	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	BOOZ ALLEN HAMILTON HOLDINGS	2,295,784.54	46,258	1.05	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	BANKUNITED INC	2,643,672.00	74,680	1.21	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	STAG INDUSTRIAL INC	2,758,250.00	100,300	1.26	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	HOLLYFRONTIER CORP	1,584,633.00	22,670	0.72	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	CUBESMART	2,515,860.99	88,183	1.15	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	MRC GLOBAL INC	2,085,159.30	111,090	0.95	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	INGREDION INC	2,025,203.20	19,295	0.93	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	BLOOMIN BRANDS INC	2,507,986.70	126,730	1.15	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SANMINA CORP	1,750,116.00	63,410	0.80	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ICON PLC	3,026,107.50	19,682	1.38	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	TAYLOR MORRISON HOME CORP A	1,502,912.40	83,310	0.69	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	CDW CORP/DE	1,131,951.60	12,730	0.52	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	EMPIRE STATE REALTY TRUST A	2,441,736.44	147,004	1.12	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ESSENT GROUP LTD	2,739,960.00	61,920	1.25	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	STERLING BANCORP/DE	2,961,640.00	134,620	1.35	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ALLIANT ENERGY CORP	2,479,915.35	58,255	1.13	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	AMERICAN FINANCIAL GROUP INC	2,557,969.47	23,051	1.17	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	WERNER ENTERPRISES INC	1,585,801.00	44,860	0.73	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SUN COMMUNITIES INC	2,768,691.18	27,267	1.27	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	EVEREST RE GROUP LTD	3,735,484.50	16,350	1.71	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ALASKA AIR GROUP INC	2,859,755.80	41,530	1.31	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	AVNET INC	2,774,844.60	61,980	1.27	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	LENNAR CORP A	2,445,342.06	52,374	1.12	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	OLD REPUBLIC INTL CORP	2,663,891.40	119,030	1.22	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	GRANITE CONSTRUCTION INC	1,840,339.00	40,270	0.84	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	OSHKOSH CORP	2,319,574.40	32,560	1.06	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	RPC INC	1,985,108.76	128,237	0.91	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SELECTIVE INSURANCE GROUP	1,753,679.50	27,617	0.80	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SKYWEST INC	2,524,395.10	42,859	1.15	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	SOUTHWEST GAS HOLDINGS INC	1,999,459.00	25,300	0.91	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	STEPAN CO	366,747.15	4,215	0.17	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ANIXTER INTERNATIONAL INC	2,080,880.00	29,600	0.95	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	BLACK HILLS CORP	1,538,048.93	26,477	0.70	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	DRIL QUIP INC	1,608,882.00	30,792	0.74	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	REGAL BELOIT CORP	2,340,755.50	28,390	1.07	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	TEREX CORP	1,716,928.20	43,020	0.79	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	UMPQUA HOLDINGS CORP	2,822,518.40	135,698	1.29	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	CAMDEN PROPERTY TRUST	3,082,382.94	32,942	1.41	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	CYPRESS SEMICONDUCTOR CORP	1,861,240.50	128,450	0.85	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	WEBSTER FINANCIAL CORP	2,168,725.68	36,783	0.99	0	
MML SMALL/MID CAP VALUE FUND	CASH	US DOLLAR	9,246.03	9,246	0.00	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ZIONS BANCORP NA	3,582,866.45	71,443	1.64	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	AMDOCS LTD	2,216,796.04	33,598	1.01	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SMALL/MID CAP VALUE FUND	EQUITY	NCR CORPORATION	3,085,865.79	108,619	1.41	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	NETSCOUT SYSTEMS INC	2,102,062.50	83,250	0.96	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	STEELCASE INC CL A	2,257,814.00	122,044	1.03	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	QUANTA SERVICES INC	2,276,115.44	68,188	1.04	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	OIL STATES INTERNATIONAL INC	2,432,564.00	73,270	1.11	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	PATTERSON UTI ENERGY INC	1,595,849.70	93,270	0.73	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	PNM RESOURCES INC	1,821,130.35	46,163	0.83	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	VERINT SYSTEMS INC	3,080,398.50	61,485	1.41	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	HAWAIIAN HOLDINGS INC	2,292,918.00	57,180	1.05	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	MOLINA HEALTHCARE INC	2,412,211.40	16,222	1.10	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	TEXAS CAPITAL BANCSHARES INC	2,677,116.15	32,391	1.22	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	WELLCARE HEALTH PLANS INC	2,243,430.00	7,000	1.03	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ATLAS AIR WORLDWIDE HOLDINGS	1,637,737.50	25,690	0.75	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	ENERSYS	2,821,269.40	32,380	1.29	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	AMERICAN CAMPUS COMMUNITIES	2,662,969.68	64,698	1.22	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	HANOVER INSURANCE GROUP INC/	1,514,983.60	12,280	0.69	0	
MML SMALL/MID CAP VALUE FUND	EQUITY	HELIX ENERGY SOLUTIONS GROUP	948,183.60	95,970	0.43	0	
MML SPECIAL SITUATIONS FUND	EQUITY	DXC TECHNOLOGY CO	362,296.48	3,874	1.37	0	
MML SPECIAL SITUATIONS FUND	EQUITY	VAREX IMAGING CORP	214,950.00	7,500	0.82	0	
MML SPECIAL SITUATIONS FUND	EQUITY	APTIV PLC	392,568.10	4,679	1.49	0	
MML SPECIAL SITUATIONS FUND	EQUITY	LIBERTY LATIN AMERIC CL A	1,127,444.00	54,100	4.28	0	
MML SPECIAL SITUATIONS FUND	EQUITY	GCI LIBERTY INC CLASS A	175,440.00	3,440	0.67	0	
MML SPECIAL SITUATIONS FUND	EQUITY	NVENT ELECTRIC PLC	63,554.40	2,340	0.24	0	
MML SPECIAL SITUATIONS FUND	EQUITY	PERSPECTA INC	49,819.64	1,937	0.19	0	
MML SPECIAL SITUATIONS FUND	EQUITY	AVANOS MEDICAL INC	417,850.00	6,100	1.58	0	
MML SPECIAL SITUATIONS FUND	EQUITY	KLX ENERGY SERVICES HOLDING	115,236.00	3,600	0.44	0	
MML SPECIAL SITUATIONS FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	1,224,463.10	1,224,463	4.64	1.1	10/1/2018
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML SPECIAL SITUATIONS FUND	EQUITY	TOPBUILD CORP	431,832.00	7,600	1.64		0
MML SPECIAL SITUATIONS FUND	EQUITY	PAYPAL HOLDINGS INC	3,074,400.00	35,000	11.66		0
MML SPECIAL SITUATIONS FUND	EQUITY	LUMENTUM HOLDINGS INC	269,775.00	4,500	1.02		0
MML SPECIAL SITUATIONS FUND	EQUITY	J ALEXANDER S HOLDINGS	136,850.00	11,500	0.52		0
MML SPECIAL SITUATIONS FUND	EQUITY	MADISON SQUARE GARDEN CO A	570,729.20	1,810	2.16		0
MML SPECIAL SITUATIONS FUND	EQUITY	HEWLETT PACKARD ENTERPRISE	1,330,896.00	81,600	5.05		0
MML SPECIAL SITUATIONS FUND	EQUITY	FOUR CORNERS PROPERTY TRUST	264,607.00	10,300	1.00		0
MML SPECIAL SITUATIONS FUND	EQUITY	LIBERTY MEDIA COR SIRIUSXM C	243,320.00	5,600	0.92		0
MML SPECIAL SITUATIONS FUND	EQUITY	LIBERTY MEDIA COR SIRIUSXM A	243,264.00	5,600	0.92		0
MML SPECIAL SITUATIONS FUND	EQUITY	LIBERTY MEDIA CORP LIBERTY C	197,107.00	5,300	0.75		0
MML SPECIAL SITUATIONS FUND	EQUITY	INGEVITY CORP	676,381.32	6,639	2.57		0
MML SPECIAL SITUATIONS FUND	EQUITY	FORTIVE CORP W/D	1,902,920.00	22,600	7.22		0
MML SPECIAL SITUATIONS FUND	EQUITY	LAMB WESTON HOLDINGS INC	781,417.80	11,733	2.96		0
MML SPECIAL SITUATIONS FUND	EQUITY	ALCOA CORP	327,240.00	8,100	1.24		0
MML SPECIAL SITUATIONS FUND	EQUITY	LIBERTY EXPEDIA HOLD A	63,974.40	1,360	0.24		0
MML SPECIAL SITUATIONS FUND	EQUITY	HILTON GRAND VACATIONS INC	413,750.00	12,500	1.57		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	VALE SA SP ADR	1,301,468.00	87,700	1.05		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SINOPHARM GROUP CO H	2,461,327.28	502,200	1.98		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SBERBANK OF RUSSIA PJSC	1,021,821.87	330,097	0.82		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	AIA GROUP LTD	3,502,413.28	392,000	2.82		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	DALMIA BHARAT LTD	151,604.81	4,771	0.12		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GLENORE PLC	4,989,905.00	1,157,561	4.01		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	YANDEX NV A	1,695,117.71	51,539	1.36		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	PRADA S.P.A.	1,764,804.06	368,300	1.42		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	BDO UNIBANK INC	119,298.97	53,800	0.10		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	AAC TECHNOLOGIES HOLDINGS IN	385,003.92	37,500	0.31		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	MEDICLINIC INTERNATIONAL PLC	436,481.71	78,150	0.35		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	TENCENT HOLDINGS LTD	5,828,869.92	141,059	4.69		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GRUPO DE INV SURAMERICANA	145,713.24	12,420	0.12		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	ALIBABA GROUP HOLDING SP ADR	7,175,792.28	43,553	5.77		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GRUPO AVAL ACCIONES Y VALORE	711,592.00	91,700	0.57		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	JIANGSU HENGRUI MEDICINE C A	1,529,975.28	165,650	1.23		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	3SBIO INC	106,810.68	63,500	0.09		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	LUKOIL PJSC SPON ADR	868,122.48	11,334	0.70		0
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	LUKOIL PJSC SPON ADR	246,901.20	3,230	0.20		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57		0
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56		0
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62		0

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	PINDUODUO INC ADR	1,021,892.30	38,870	0.82	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	MEITUAN DIANPING CLASS B	1,402,372.15	159,800	1.13	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	5,021,747.62	5,021,748	4.04	1.1	10/1/2018
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SHOPRITE HOLDINGS LTD	951,503.66	70,271	0.77	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	KAKAO CORP	451,172.46	4,205	0.36	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	HONG KONG EXCHANGES + CLEAR	1,407,559.53	49,536	1.13	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	JARDINE STRATEGIC HLDGS LTD	1,650,148.44	45,462	1.33	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	PHILIPPINE PISO	209.11	11,298	0.00	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	FOMENTO ECONOMICO MEX SP ADR	1,030,277.70	10,410	0.83	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	BRAZILIAN REAL	1.00	4	0.00	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	INDIAN RUPEE	75,771.28	5,492,660	0.06	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	SOUTH KOREAN WON	4.51	5,002	0.00	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	POUND STERLING	0.21	0	0.00	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	HONG KONG DOLLAR	14,621.73	114,464	0.01	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	KERING	4,494,331.25	8,405	3.61	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	FOMENTO ECONOMICO MEXICA UBD	2,112,677.51	213,550	1.70	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	LOJAS AMERICANAS SA PREF	1,306,208.42	332,400	1.05	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	AYALA LAND INC	782,514.39	1,055,400	0.63	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	HOUSING DEVELOPMENT FINANCE	3,426,923.25	141,992	2.76	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	ZEE ENTERTAINMENT ENTERPRISE	1,341,752.70	220,960	1.08	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	COMMERCIAL INTERNATIONAL BAN	566,947.76	120,952	0.46	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	INDOCEMENT TUNGGAL PRAKARSA	525,889.36	424,000	0.42	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	FIRSTRAND LTD	2,217,022.36	462,730	1.78	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	AMOREPACIFIC GROUP	166,215.55	1,977	0.13	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SAMSUNG ELECTRONICS CO LTD	2,169,501.05	51,800	1.74	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SM PRIME HOLDINGS INC	935,052.01	1,393,500	0.75	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	TAIWAN SEMICONDUCTOR MANUFAC	7,291,836.47	854,000	5.86	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SIAM COMMERCIAL BANK FOREIGN	670,822.51	145,600	0.54	0	
MML STRATEGIC EMERGING MARKETS FUND	CASH	US DOLLAR	3,605.32	3,605	0.00	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	CREDICORP LTD	1,586,098.80	7,110	1.28	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	LVMH MOET HENNESSY LOUIS VUI	3,451,563.58	9,776	2.78	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GRUPO AEROPORT DEL SURESTE B	835,399.12	40,883	0.67	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GRUPO MEXICO SAB DE CV SER B	1,446,406.07	502,563	1.16	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	NEW ORIENTAL EDUCATIO SP ADR	1,153,075.80	15,580	0.93	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	GENTING BHD	340,586.21	180,500	0.27	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	SUNNY OPTICAL TECH	415,586.31	36,000	0.33	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	CHOLAMANDALAM INVESTMENT AND	368,261.52	22,827	0.30	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	MERCADOLIBRE INC	606,036.60	1,780	0.49	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	DP WORLD LTD	1,414,624.64	74,184	1.14	0	
MML STRATEGIC EMERGING MARKETS FUND	EQUITY	ITAU UNIBANCO H SPON PRF ADR	611,256.60	55,670	0.49	0	
MML TOTAL RETURN BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	1,047,099.46	1,079,000	0.24	3.004	12/20/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	US TREASURY N/B	16,546,749.38	16,770,000	3.76	3.125	5/15/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	NEXTERA ENERGY CAPITAL	2,005,551.58	2,000,000	0.46	2.8205	5/4/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G67713	1,144,948.08	1,128,114	0.26	4	6/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	SANTANDER UK PLC	1,245,100.91	1,250,000	0.28	3.4	6/1/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	US TREASURY N/B	13,953,021.88	14,170,000	3.17	2.875	8/15/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLCARE HEALTH PLANS	40,700.00	40,000	0.01	5.375	8/15/2026
MML TOTAL RETURN BOND FUND	FIXED INCOME	BANC OF AMERICA MERRILL LYNCH	632,093.97	620,000	0.14	4.09075	8/10/2038
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL BM2007	1,049,516.11	1,038,924	0.24	4	9/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	INTELSAT JACKSON HLDG	106,155.00	105,000	0.02	8.5	10/15/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	HALFMOON PARENT INC	797,720.20	800,000	0.18	4.125	11/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	AIR LEASE CORP	570,823.95	575,000	0.13	3.5	1/15/2022
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GR	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	IHS MARKIT LTD	386,282.05	385,000	0.09	4.75	8/1/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	US TREASURY N/B	274,110.54	275,000	0.06	2.625	7/31/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL CA2208	1,720,152.80	1,666,070	0.39	4.5	8/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	NORTHROP GRUMMAN CORP	601,806.09	640,000	0.14	3.25	1/15/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	CATALENT PHARMA SOLUTION	77,000.00	80,000	0.02	4.875	1/15/2026
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4836	2,169,996.11	2,237,830	0.49	3	11/20/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4838	1,005,248.77	987,201	0.23	4	11/20/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	LLOYDS BANKING GROUP PLC	410,225.48	430,000	0.09	2.907	11/7/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	ALEXANDRIA REAL ESTATE E	430,305.99	450,000	0.10	3.45	4/30/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	TELEFLEX INC	101,650.00	107,000	0.02	4.625	11/15/2027
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	
MML ASSET MOMENTUM FUND	EQUITY	ADVANCED MEDICAL SOLUTIONS	234,446.73	54,425	0.76	0	
MML ASSET MOMENTUM FUND	EQUITY	PORTMEIRION GROUP PLC	86,513.37	5,600	0.28	0	
MML ASSET MOMENTUM FUND	EQUITY	ZIONS BANCORP NA	265,795.00	5,300	0.86	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	CAMPBELL SOUP CO	643,811.60	650,000	0.15	3.3	3/15/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	ANHEUSER BUSCH INBEV WOR	428,767.98	435,000	0.10	4	4/13/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G67710	2,929,191.44	2,970,265	0.67	3.5	3/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G67711	1,926,739.29	1,895,493	0.44	4	3/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	GENERAL MILLS INC	620,361.45	630,000	0.14	4.2	4/17/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	LCM LTD PARTNERSHIP	738,266.18	740,000	0.17	3.2275	4/20/2028
MML TOTAL RETURN BOND FUND	FUTURE	EURO-BOBL FUTURE DEC18	-	(6,800,000)	0.01	0	12/6/2018
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	
MML ASSET MOMENTUM FUND	CASH	POUND STERLING	(334.75)	(257)	0.00	0	
MML ASSET MOMENTUM FUND	EQUITY	ROPER TECHNOLOGIES INC	325,831.00	1,100	1.06	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYCORP	274,482.00	13,800	0.89	0	
MML ASSET MOMENTUM FUND	EQUITY	LOCKHEED MARTIN CORP	1,868,184.00	5,400	6.07	0	
MML ASSET MOMENTUM FUND	EQUITY	NVR INC	1,482,480.00	600	4.82	0	
MML ASSET MOMENTUM FUND	EQUITY	CSL LTD	404,860.83	2,800	1.32	0	
MML ASSET MOMENTUM FUND	EQUITY	NTT DOCOMO INC	150,587.89	5,600	0.49	0	
MML ASSET MOMENTUM FUND	EQUITY	BANK OF AMERICA CORP	276,924.00	9,400	0.90	0	
MML ASSET MOMENTUM FUND	CASH	US DOLLAR	(71,744.02)	(71,744)	0.23	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	FHLMC MULTIFAMILY STRUCTURED P	1,738,514.52	1,775,000	0.40	3.291	3/25/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	TC PIPELINES LP	474,652.49	500,000	0.11	3.9	5/25/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	BECTON DICKINSON AND CO	388,897.66	400,000	0.09	2.894	6/6/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	BECTON DICKINSON AND CO	433,320.80	440,000	0.10	2.404	6/5/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	CANADIAN NATL RESOURCES	166,531.51	171,000	0.04	3.85	6/1/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	SBA COMMUNICATIONS CORP	96,897.50	98,000	0.02	4.875	9/1/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AS9830	1,193,369.45	1,179,957	0.27	4	6/1/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	GRAPHIC PACKAGING INTERN	194,500.00	200,000	0.04	4.125	8/15/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	KRAFT HEINZ FOODS CO	492,713.72	500,000	0.11	3.95	7/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G67700	1,425,660.58	1,441,312	0.32	3.5	8/1/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA3937	375,009.82	376,289	0.09	3.5	9/20/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	SIEMENS FINANCIERINGSMAT	511,824.73	550,000	0.12	2	9/15/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08732	963,033.14	1,005,328	0.22	3	11/1/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	TSY INFL IX N/B	1,034,371.13	1,047,478	0.24	1	2/15/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	LAMAR MEDIA CORP	100,124.06	99,750	0.02	0	3/14/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	DELOS FIN S A R L	592,725.72	591,000	0.13	0	10/6/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL MA3332	4,169,988.13	4,235,338	0.95	3.5	4/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G67708	4,162,719.17	4,217,080	0.95	3.5	3/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	VODAFONE GROUP PLC	413,795.39	420,000	0.09	4.375	5/30/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08833	615,508.67	585,981	0.14	5	7/1/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	L3 TECHNOLOGIES INC	638,125.64	640,000	0.15	4.4	6/15/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	GOLDMAN SACHS BANK USA	1,003,352.54	1,000,000	0.23	3.2	6/5/2020
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	
MML ASSET MOMENTUM FUND	EQUITY	COMERICA INC	270,600.00	3,000	0.88	0	
MML ASSET MOMENTUM FUND	EQUITY	ASSOCIATED BANC CORP	299,000.00	11,500	0.97	0	
MML ASSET MOMENTUM FUND	EQUITY	KEYENCE CORP	232,057.04	400	0.75	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	CCO HLDGS LLC/CAP CORP	213,357.30	227,000	0.05	5	2/1/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	KRAFT HEINZ FOODS CO	751,085.50	750,000	0.17	2.76144	8/9/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	GULFPORT ENERGY CORP	46,060.00	47,000	0.01	6.375	5/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4718	273,290.21	281,742	0.06	3	9/20/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4722	903,500.05	861,759	0.21	5	9/20/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4719	555,892.11	558,313	0.13	3.5	9/20/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	CIGNA CORP	851,530.99	945,000	0.19	3.05	10/15/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08791	913,875.54	954,634	0.21	3	12/1/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	819,252.49	860,000	0.19	3.093	10/1/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	FANNIEMAE ACES	894,143.42	887,976	0.20	2.53938	9/25/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	FHLMC MULTIFAMILY STRUCTURED P	715,914.85	716,285	0.16	2.47375	8/25/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	NEXTERA ENERGY OPERATING	169,477.50	177,000	0.04	4.5	9/15/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	SUNOCO LOGISTICS PARTNER	637,023.97	644,000	0.14	5.4	10/1/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	MULTI COLOR CORP	121,550.00	130,000	0.03	4.875	11/1/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	DELL INC	231,602.32	231,531	0.05	0	12/31/2018
MML TOTAL RETURN BOND FUND	FIXED INCOME	GOLDMAN SACHS GROUP INC	616,298.22	645,000	0.14	3.272	9/29/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	PILGRIM S PRIDE CORP	143,640.00	152,000	0.03	5.875	9/30/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL V61427	421,089.87	436,098	0.10	2.5	12/1/2031
MML TOTAL RETURN BOND FUND	FIXED INCOME	CHARTER COMM OPT LLC/CAP	214,996.67	200,000	0.05	6.484	10/23/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4126	2,405,515.93	2,476,722	0.55	3	12/20/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA4127	1,264,498.29	1,268,810	0.29	3.5	12/20/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	TRANSOCEAN PROTEUS LTD	71,784.63	70,550	0.02	6.25	12/1/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLS FARGO BANK NA	2,475,950.00	2,500,000	0.56	2.15	12/6/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	PARSLEY ENERGY LLC/FINAN	210,525.00	210,000	0.05	5.375	1/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	DOMINION ENERGY INC	998,339.55	1,000,000	0.23	1.875	12/15/2018
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	VENTAS REALTY LP	1,432,147.38	1,500,000	0.33	3.5	2/1/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 466960	1,114,980.24	1,097,256	0.25	3.89	12/1/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	MORGAN STANLEY REREMIC TRUST	897,714.99	919,196	0.20	2.58666	11/26/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	BAUSCH HEALTH COS INC	257,950.00	268,000	0.06	5.5	3/1/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AB4262	726,727.20	724,322	0.17	3.5	1/1/2032
MML TOTAL RETURN BOND FUND	FIXED INCOME	NOMURA RESECURITIZATION TRUST	242,549.33	244,162	0.06	2.44513	5/26/2047
MML TOTAL RETURN BOND FUND	FIXED INCOME	SFAVE COMMERCIAL MORTGAGE SECU	350,783.38	370,000	0.08	3.872	1/5/2043
MML TOTAL RETURN BOND FUND	FIXED INCOME	ANTERO RESOURCES CORP	126,937.50	125,000	0.03	5.125	12/1/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	1,282,561.84	1,282,563	0.29	2.80581	4/25/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	WILLIAMS COMPANIES INC	678,555.57	683,000	0.15	3.6	3/15/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	ALLERGAN FUNDING SCS	427,991.98	440,000	0.10	4.55	3/15/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	ENERGY TRANSFER PARTNERS	377,614.72	400,000	0.09	5.15	3/15/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	VERIZON COMMUNICATIONS	299,254.46	300,000	0.07	4.862	8/21/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	VIRGIN MEDIA SECURED FIN	195,558.00	200,000	0.04	5.25	1/15/2026
MML TOTAL RETURN BOND FUND	FIXED INCOME	RITE AID CORP	171,183.75	191,000	0.04	6.125	4/1/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	CORE INDUSTRIAL TRUST	408,220.50	412,672	0.09	3.04	2/10/2034
MML TOTAL RETURN BOND FUND	FIXED INCOME	CORE INDUSTRIAL TRUST	412,836.98	416,849	0.09	3.077	2/10/2034
MML TOTAL RETURN BOND FUND	FIXED INCOME	AMGEN INC	484,016.50	500,000	0.11	4.4	5/1/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	AMGEN INC	196,864.00	200,000	0.04	2.125	5/1/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	ABBVIE INC	483,934.68	500,000	0.11	3.6	5/14/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G60023	2,580,865.78	2,601,802	0.59	3.5	4/1/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	SHELL INTERNATIONAL FIN	430,962.46	415,000	0.10	4.375	5/11/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	ENERGY TRANSFER EQUITY	263,601.20	254,000	0.06	5.5	6/1/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLTOWER INC	818,858.58	830,000	0.19	4	6/1/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	NELNET STUDENT LOAN TRUST	1,514,614.52	1,516,691	0.34	2.81581	2/27/2051
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AL6829	1,293,407.57	1,339,011	0.29	2.964	5/1/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AM9188	712,715.02	780,000	0.16	3.12	6/1/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	SEALED AIR CORP	192,850.00	190,000	0.04	5.5	9/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	CITIGROUP COMMERCIAL MORTGAGE	335,621.65	340,000	0.08	3.251	5/10/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AM2808	367,074.34	375,000	0.08	2.7	3/1/2023
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	COMM MORTGAGE TRUST	334,319.72	340,000	0.08	3.545	2/10/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA3521	1,002,322.11	1,004,795	0.23	3.5	3/20/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G18592	569,831.95	577,685	0.13	3	3/1/2031
MML TOTAL RETURN BOND FUND	FIXED INCOME	AT+T INC	157,535.00	160,000	0.04	3.95	1/15/2025
MML TOTAL RETURN BOND FUND	FIXED INCOME	HARBORVIEW MORTGAGE LOAN TRUST	1,828,731.82	2,076,993	0.42	2.36813	11/19/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II TBA 30 YR 3.5	1,217,726.56	1,225,000	0.28	3.5	10/18/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AI2733	251,438.46	237,162	0.06	5	5/1/2041
MML TOTAL RETURN BOND FUND	FIXED INCOME	SPRINT COMMUNICATIONS	350,157.60	348,000	0.08	9	11/15/2018
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	984,696.45	982,471	0.22	3.16581	9/25/2028
MML TOTAL RETURN BOND FUND	FIXED INCOME	FRESENIUS MED CARE II	494,589.25	485,000	0.11	5.625	7/31/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	RUBY PIPELINE LLC	688,904.11	670,455	0.16	6	4/1/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLTOWER INC	752,454.26	750,000	0.17	4.125	4/1/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	ANTHEM INC	492,124.46	500,000	0.11	3.125	5/15/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	371,183.19	370,000	0.08	3.551	4/10/2034
MML TOTAL RETURN BOND FUND	FIXED INCOME	BERKSHIRE HATHAWAY FIN	764,514.21	750,000	0.17	4.4	5/15/2042
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL MA1148	2,323,282.98	2,345,547	0.53	3.5	8/1/2042
MML TOTAL RETURN BOND FUND	FIXED INCOME	LG+E AND KU ENERGY LLC	1,223,261.64	1,200,000	0.28	4.375	10/1/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	GS MORTGAGE SECURITIES TRUST	400,116.88	400,000	0.09	2.933	6/5/2031
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AM0359	484,438.55	500,000	0.11	2.31	8/1/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	ANTHEM INC	522,962.24	530,000	0.12	3.3	1/15/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	DUKE ENERGY CAROLINAS	968,466.96	1,000,000	0.22	4	9/30/2042
MML TOTAL RETURN BOND FUND	FIXED INCOME	MORGAN STANLEY BAML TRUST	1,744,171.45	1,780,000	0.40	2.858	11/15/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	DISH DBS CORP	97,606.00	100,000	0.02	5.875	7/15/2022
MML TOTAL RETURN BOND FUND	FIXED INCOME	CHASE MORTGAGE FINANCE CORPORA	580,132.19	589,364	0.13	3.78535	3/25/2037
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	992,887.65	1,002,909	0.23	2.86581	5/26/2026
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML MANAGED BOND FUND	3,639,797.72	301,470	2.32	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP VAR ACC GLOBAL FUND	3,994,649.29	88,416	2.55	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INCOME AND GROWTH FD	9,464,539.85	960,867	6.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SMALL COMPANY VALUE FUND	4,039,209.33	234,565	2.57	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML FOREIGN FD	7,823,731.60	731,874	4.99	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BOND FD	375,114,305.75	35,421,559	35.05	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FD INS INTERNATIONAL FD	134,461,285.75	6,633,512	12.56	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS GRWTH INC FD	295,577,557.62	5,636,490	27.62	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	EQUITY	AMER FDS INS BLUE CHIP INC GRT	265,105,923.14	18,232,870	24.77	0	
MML AMERICAN FUNDS CORE ALLOCATION FUND	CASH	US DOLLAR	24.10	24	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	CASH	US DOLLAR	1.10	1	0.00	0	
MML AMERICAN FUNDS GROWTH FUND	EQUITY	AMERICAN FDS INS SER	187,473,626.23	2,291,293	100.00	0	
MML AMERICAN FUNDS INTERNATIONAL FUND	EQUITY	AMER FD INS INTERNATIONAL FD	62,860,079.44	3,101,139	100.00	0	
MML ASSET MOMENTUM FUND	EQUITY	FRESENIUS SE + CO KGAA	433,204.34	5,900	1.41	0	
MML ASSET MOMENTUM FUND	CASH EQUIVALENT	FIXED INC CLEARING CORP.REPO	3,937,700.03	3,937,700	12.80	1.1	10/1/2018
MML ASSET MOMENTUM FUND	EQUITY	HENKEL AG + CO KGAA	212,410.92	2,000	0.69	0	
MML ASSET MOMENTUM FUND	EQUITY	BOK FINANCIAL CORPORATION	301,568.00	3,100	0.98	0	
MML ASSET MOMENTUM FUND	EQUITY	FIFTH THIRD BANCORP	251,280.00	9,000	0.82	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	LEVEL 3 FINANCING INC	135,896.64	136,000	0.03	5.375	1/15/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II POOL MA3666	300,085.71	287,249	0.07	5	5/20/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08710	373,869.25	390,289	0.09	3	6/1/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08711	1,521,208.42	1,542,295	0.35	3.5	6/1/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	FED HM LN PC POOL G08716	2,110,511.08	2,139,766	0.48	3.5	8/1/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	PENNSYLVANIA HIGHER EDUCATION	1,143,272.84	1,138,825	0.26	2.96581	11/25/2042
MML TOTAL RETURN BOND FUND	FIXED INCOME	DUKE REALTY LP	1,008,938.94	1,000,000	0.23	3.875	2/15/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	RBSCF TRUST	333,263.60	330,000	0.08	3.96139	1/13/2032
MML TOTAL RETURN BOND FUND	FIXED INCOME	HCA INC	380,275.00	371,000	0.09	5	3/15/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 469621	1,559,032.73	1,537,031	0.35	3.65	11/1/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	AT+T INC	1,198,918.58	1,300,000	0.27	4.8	6/15/2044
MML TOTAL RETURN BOND FUND	FIXED INCOME	INTELSAT JACKSON HLDG	13,818.75	15,000	0.00	5.5	8/1/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	MACQUARIE BANK LTD	748,130.30	750,000	0.17	2.6	6/24/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	GENERAL MOTORS CO	500,000.00	500,000	0.11	3.5	10/2/2018
MML TOTAL RETURN BOND FUND	FIXED INCOME	HCP INC	488,884.96	500,000	0.11	3.875	8/15/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	FARMERS EXCHANGE CAP III	957,634.50	970,000	0.22	5.454	10/15/2054
MML TOTAL RETURN BOND FUND	FIXED INCOME	BAYER US FINANCE LLC	844,361.11	850,000	0.19	2.375	10/8/2019
MML TOTAL RETURN BOND FUND	CASH	POUND STERLING	(0.01)	(0)	-	0	
MML TOTAL RETURN BOND FUND	CASH	MEXICAN PESO (NEW)	(0.02)	(0)	-	0	
MML TOTAL RETURN BOND FUND	CASH	US DOLLAR	391,957.04	391,957	0.09	0	
MML TOTAL RETURN BOND FUND	FIXED INCOME	SPRINT CAPITAL CORP	71,355.00	71,000	0.02	6.875	11/15/2028
MML TOTAL RETURN BOND FUND	CASH	EURO CURRENCY	6.83	6	0.00	0	
MML TOTAL RETURN BOND FUND	FIXED INCOME	BANK OF AMERICA CORP	753,983.00	750,000	0.17	6.875	11/15/2018
MML TOTAL RETURN BOND FUND	FIXED INCOME	NORTHWEST AIR 2001 1 A1	376,052.31	351,451	0.09	7.041	10/1/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	JERSEY CITY NJ MUNI UTILITIES	921,519.00	850,000	0.21	5.47	5/15/2027
MML TOTAL RETURN BOND FUND	FIXED INCOME	FHLMC TBA 30 YR 4.5	2,063,984.40	2,000,000	0.47	4.5	10/11/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	FHLMC TBA 30 YR 4	217,099.60	215,000	0.05	4	10/11/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA TBA 30 YR 4	1,928,503.13	1,910,000	0.44	4	10/11/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLS FARGO MORTGAGE BACKED SE	224,427.98	219,107	0.05	3.80839	1/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	WAMU MORTGAGE PASS THROUGH CER	978,155.86	982,601	0.22	2.54581	1/25/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	IMPAC CMB TRUST	1,232,103.47	1,280,905	0.28	2.73581	4/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	FIRST HORIZON MORTGAGE PASS TH	783,374.19	800,384	0.18	3.68912	11/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	WAMU MORTGAGE PASS THROUGH CER	1,005,037.53	989,345	0.23	2.50581	10/25/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	INDYMAC INDX MORTGAGE LOAN TRU	981,772.75	1,147,753	0.22	3.78497	10/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	SAXON ASSET SECURITIES TRUST	754,306.21	759,001	0.17	2.90581	5/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	FIRST FRANKLIN MTG LOAN ASSET	267,462.33	267,197	0.06	2.68581	7/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	CITIGROUP MORTGAGE LOAN TRUST	583,493.09	563,471	0.13	4.82	10/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	WASHINGTON MUTUAL MORTGAGE PAS	960,530.14	1,004,007	0.22	5.75	2/25/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	AMERICAN HOME MORTGAGE INVESTM	1,534,235.55	1,514,403	0.35	4.51613	6/25/2045
MML TOTAL RETURN BOND FUND	FIXED INCOME	BEAR STEARNS ASSET BACKED SECU	433,937.75	431,463	0.10	2.62581	12/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLS FARGO MORTGAGE BACKED SE	856,281.11	829,422	0.19	3.77632	4/25/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	COUNTRYWIDE ASSET BACKED CERTI	1,048,632.91	1,060,212	0.24	4.708774	10/25/2046
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLC STUDENT LOAN TRUST	2,238,247.53	2,300,000	0.51	2.49413	9/15/2039
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II TBA 30 YR 4.5	4,613,949.72	4,465,000	1.05	4.5	10/18/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	NOMURA ASSET ACCEPTANCE CORPOR	1,874,565.32	1,884,602	0.43	3.28581	2/25/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLS FARGO HOME EQUITY TRUST	1,136,939.56	1,135,123	0.26	3.26581	10/25/2034
MML TOTAL RETURN BOND FUND	FIXED INCOME	JERSEY CENTRAL PWR + LT	500,171.15	425,000	0.11	6.4	5/15/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	CENTERPOINT ENERGY RESOU	682,013.69	595,000	0.16	6.25	2/1/2037
MML TOTAL RETURN BOND FUND	FIXED INCOME	COLLEGIATE FUNDING SERVICES ED	1,460,488.05	1,500,000	0.33	2.58613	3/28/2035
MML TOTAL RETURN BOND FUND	FIXED INCOME	GENERAL ELECTRIC CO	272,364.15	244,000	0.06	5.875	1/14/2038
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,512,514.90	1,502,282	0.34	3.43531	7/25/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 986268	1,682.37	1,584	0.00	5	7/1/2038
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	2,124,160.03	2,080,466	0.48	3.83531	4/25/2023
MML TOTAL RETURN BOND FUND	FIXED INCOME	SLM STUDENT LOAN TRUST	1,109,435.95	1,106,932	0.25	2.71531	10/25/2024
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 985524	34,214.17	31,483	0.01	5.5	6/1/2038
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 988578	211,762.18	194,857	0.05	5.5	8/1/2038
MML TOTAL RETURN BOND FUND	FIXED INCOME	NOVARTIS SECS INVEST LTD	1,008,597.83	1,000,000	0.23	5.125	2/10/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 995482	162,907.33	149,902	0.04	5.5	1/1/2039
MML TOTAL RETURN BOND FUND	FIXED INCOME	FLORIDA GAS TRANSMISSION	1,029,768.91	1,000,000	0.23	7.9	5/15/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	CITIGROUP INC	1,242,617.75	1,200,000	0.28	8.5	5/22/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 931504	105,072.23	100,815	0.02	4.5	7/1/2039
MML TOTAL RETURN BOND FUND	FIXED INCOME	MORGAN STANLEY	512,438.36	500,000	0.12	5.625	9/23/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	GNMA II TBA 30 YR 4	1,031,969.58	1,015,000	0.23	4	10/18/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	NEW YORK NY	832,140.00	750,000	0.19	5.206	10/1/2031
MML TOTAL RETURN BOND FUND	FIXED INCOME	LOS ANGELES CA UNIF SCH DIST	1,146,410.00	1,000,000	0.26	5.755	7/1/2029
MML TOTAL RETURN BOND FUND	FIXED INCOME	CONTL AIRLINES 2009 2	1,652,442.26	1,590,340	0.38	7.25	5/10/2021
MML TOTAL RETURN BOND FUND	FIXED INCOME	CITIGROUP MORTGAGE LOAN TRUST	2,397,180.00	2,400,000	0.55	2.50581	8/25/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	FORD MOTOR CREDIT CO LLC	850,424.03	805,000	0.19	8.125	1/15/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	BOSTON SCIENTIFIC CORP	672,686.85	650,000	0.15	6	1/15/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	ROCKIES EXPRESS PIPELINE	391,477.50	381,000	0.09	5.625	4/15/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	CALIFORNIA ST	906,015.00	850,000	0.21	7.95	3/1/2036
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL AD6374	30,866.94	29,114	0.01	5	5/1/2040
MML TOTAL RETURN BOND FUND	FIXED INCOME	CSC HOLDINGS LLC	101,500.00	100,000	0.02	8.625	2/15/2019
MML TOTAL RETURN BOND FUND	FIXED INCOME	MORGAN STANLEY	259,382.50	250,000	0.06	5.5	7/24/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	DUQUESNE LIGHT HOLDINGS	1,046,955.02	1,000,000	0.24	6.4	9/15/2020
MML TOTAL RETURN BOND FUND	FIXED INCOME	FHLMC TBA 30 YR 3.5	201,764.85	205,000	0.05	3.5	10/11/2048
MML TOTAL RETURN BOND FUND	FIXED INCOME	NEW YORK ST DORM AUTH ST PERSO	846,232.50	750,000	0.19	5.289	3/15/2033
MML TOTAL RETURN BOND FUND	FIXED INCOME	WELLS FARGO COMMERCIAL MORTGAG	509,269.90	500,000	0.12	4.393	11/15/2043
MML TOTAL RETURN BOND FUND	FIXED INCOME	FNMA POOL 468551	1,256,317.94	1,230,000	0.29	3.98	7/1/2021
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	808,574.40	810,000	0.45	0.01	10/31/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL FARM CREDIT BANK	5,000,407.12	5,000,000	2.76	2.05256	11/9/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	2,879,647.38	2,890,000	1.59	0.01	11/30/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	14,975,940.00	15,000,000	8.25	0.01	10/26/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	4,983,538.20	5,000,000	2.75	0.01	11/23/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH	US DOLLAR	6,208.09	6,208	0.00	0	
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	1,999,555.56	2,000,000	1.10	0.01	10/3/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	799,913.33	800,000	0.44	0.01	10/1/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	6,991,833.34	7,000,000	3.85	0.01	10/19/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	1,718,948.89	1,720,000	0.95	0.01	10/10/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	5,635,808.07	5,640,000	3.11	0.01	10/12/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	US TREASURY N/B	7,964,879.42	8,000,000	4.39	1.5	3/31/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	US TREASURY N/B	4,972,117.82	5,000,000	2.74	0.75	2/15/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL FARM CREDIT BANK	1,501,873.05	1,500,000	0.83	2.39081	2/25/2019
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPP GLOBAL MULTI ALT FD/VA	14,117,027.76	1,421,654	9.00	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INTERNATIONAL EQUITY FUND	7,900,915.54	739,786	5.03	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER INTERNATIONAL GROW	3,669,767.75	1,541,919	2.34	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML DYNAMIC BOND FUND	2,501,320.63	256,809	1.59	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML SER INVT FD	7,510,335.34	231,443	4.79	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	OPPENHEIMER MAIN STREET FUND/V	4,284,563.55	137,812	2.73	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML BLUE CHIP GROWTH FD	8,075,384.19	474,186	5.15	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML EQUITY INCOME FD	9,376,721.31	818,213	5.97	0	
MML AGGRESSIVE ALLOCATION FUND	EQUITY	MML INFLATION PROTECTED BD FD	4,264,236.76	430,731	2.72	0	

MML Series Investment Fund and MML Series Investment Fund II Portfolio Holdings
As of 9/30/2018

Fund Name	Asset Class	Security Name	Base Market Value	Shares/Par Value	Percent of Fund	Interest Rate	Maturity Date
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	3,983,000.00	4,000,000	2.19	0.01	12/13/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FED HOME LN DISCOUNT NT	9,989,650.00	10,000,000	5.50	0.01	10/17/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	1,400,338.15	1,400,000	0.77	2.177	1/23/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	3,000,592.15	3,000,000	1.65	2.121	11/9/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	7,006,213.98	7,000,000	3.86	2.152	5/24/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	2,000,000.00	2,000,000	1.10	2.021	10/11/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	2,500,192.00	2,500,000	1.38	2.102	4/22/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	4,000,064.18	4,000,000	2.20	2.028	11/15/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	10,000,059.88	10,000,000	5.51	2.068	7/17/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	5,000,258.53	5,000,000	2.75	2.126	1/25/2019
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	2018-10-01 2.22%	20,000,000.00	20,000,000	11.02	2.22	10/1/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FANNIE DISCOUNT NOTE	2,999,678.33	3,000,000	1.65	0.01	10/1/2018
MML US GOVERNMENT MONEY MARKET FUND	CASH EQUIVALENT	FEDERAL HOME LOAN BANK	3,001,322.03	3,000,000	1.65	2.123	2/1/2019