QUARTERLY STATEMENT

OF THE

MML Bay State Life Insurance Company

TO THE

Insurance Department

OF THE

STATE OF

FOR THE QUARTER ENDED JUNE 30, 2016

LIFE AND ACCIDENT AND HEALTH

2016



LIFE AND ACCIDENT AND HEALTH COMPANIES - ASSOCIATION EDITION

QUARTERLY STATEMENT

AS OF JUNE 30, 2016 OF THE CONDITION AND AFFAIRS OF THE

MML Bay State Life Insurance Company

NAIC Group Code 0435 0435 NAIC Company Code 70416 Employer's ID Number 43-0581430

Organized under the Laws of	(Current) (Conne	Prior) ecticut	, State of Domicile or Port o	f Entry Connecticut
Country of Domicile		United States	of America	
Incorporated/Organized	04/01/1935		Commenced Business	07/01/1894
Statutory Home Office	100 Bright Meadov	Boulevard ,		Enfield , CT, US 06082
	(Street and No	umber)	(City	or Town, State, Country and Zip Code)
Main Administrative Office _		1295 Stat		
	Springfield , MA, US 01111	(Street and	,	413-788-8411
(City or	Town, State, Country and Zip ((Area Code) (Telephone Number)
Mail Address	1295 State Street			Springfield , MA, US 01111
	(Street and Number or P.		(City	or Town, State, Country and Zip Code)
Primary Location of Books and	1 Pagarda	1295 Sta	to Stroot	
Filliary Location of Books and	necords	(Street and		
	Springfield , MA, US 01111			413-788-8411
(City or	Town, State, Country and Zip (Code)	((Area Code) (Telephone Number)
Internet Website Address		www.massn	nutual.com	
Statutory Statement Contact	Tammy	A. Peatman		413-744-6327
Statutory Statement Contact	-	(Name)	, <u></u>	(Area Code) (Telephone Number)
	tpeatman@massmutual.com			413-226-4086
	(E-mail Address)			(FAX Number)
		OFFIC	ERS	
President and Chief	Roger William	Crandall	Transurar	Todd Carett Bioken
Executive Officer _ Secretary			Apointed Actuary	Todd Garett Picken Douglas Wright Taylor
Melvin Timothy Corbett, Roger William Cr	#, Chief Financial Officer Executive Vice President andall - Chairman	General DIRECTORS O	ecutive Vice President and Counsel	Michael Robert Fanning, Executive Vice President Elizabeth Ward Chicares #
Mark Doug	glas Roellig			-
State of	Massachusetts Hampden	— SS:		
all of the herein described as statement, together with relate condition and affairs of the sai in accordance with the NAIC rules or regulations require respectively. Furthermore, the	sets were the absolute propert d exhibits, schedules and expla d reporting entity as of the repo Annual Statement Instructions: differences in reporting not re escope of this attestation by the	y of the said reporting entity, inations therein contained, ar rting period stated above, an and Accounting Practices an lated to accounting practice e described officers also inc	, free and clear from any lier nnexed or referred to, is a full d of its income and deduction d Procedures manual except as and procedures, accordir ludes the related correspond	eporting entity, and that on the reporting period stated above, as or claims thereon, except as herein stated, and that this and true statement of all the assets and liabilities and of the as therefrom for the period ended, and have been completed to the extent that: (1) state law may differ; or, (2) that state go to the best of their information, knowledge and belief, ing electronic filing with the NAIC, when required, that is an any be requested by various regulators in lieu of or in addition
Roger William C President and Chief Ex		Pia Denise Secre	-	Todd Garett Picken Treasurer
Subscribed and sworn to before day of			a. Is this an original fili b. If no, 1. State the amend 2. Date filed	ment number

ASSETS

	_		Current Statement Date		4
		1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	December 31 Prior Year Net Admitted Assets
1.	Pondo	252.952.631	Nonaumited Assets	252,952,631	222,828,946
		232,932,031		232,932,001	222,020,940
2.					
	2.1 Preferred stocks				
	2.2 Common stocks				
3.	Mortgage loans on real estate:				
	3.1 First liens	4,870,093		4,870,093	5,847,458
	3.2 Other than first liens				
4.	Real estate:				
	4.1 Properties occupied by the company (less \$				
	encumbrances)				
	4.2 Properties held for the production of income (less				
	\$encumbrances)				
	,				
	4.3 Properties held for sale (less \$				
	encumbrances)				
5.	Cash (\$(1,635,809)), cash equivalents				
	(\$47,335,850) and short-term				
	investments (\$4,491,718)	50,191,759		50,191,759	61,289,428
6.	Contract loans (including \$ premium notes)	94,278,876		94,278,876	95,606,516
7.	Derivatives				
8.	Other invested assets				
9.	Receivables for securities				
10.	Securities lending reinvested collateral assets				
	o a constant of the constant o				
11.	Aggregate write-ins for invested assets				
12.	Subtotals, cash and invested assets (Lines 1 to 11)	402,293,359		402,293,359	
13.	Title plants less \$ charged off (for Title insurers				
	only)				
14.	Investment income due and accrued	4,505,968	25,779	4,480,189	4,042,982
15.	Premiums and considerations:				
	15.1 Uncollected premiums and agents' balances in the course of collection	439		439	1,850
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	(1.328.339)		(1.328.339)	(2.124.980)
	15.3 Accrued retrospective premiums (\$				(=, := :, := :,
	contracts subject to redetermination (\$				
10					
16.	Reinsurance:	0.070.405		0 070 405	F 00F 400
	16.1 Amounts recoverable from reinsurers				
	16.2 Funds held by or deposited with reinsured companies				
	16.3 Other amounts receivable under reinsurance contracts	24,964,972		24,964,972	21, 108, 963
17.	Amounts receivable relating to uninsured plans				
18.1	Current federal and foreign income tax recoverable and interest thereon	2,806,744		2,806,744	3,088,375
18.2	Net deferred tax asset	6,715,894	2,703,312	4,012,582	3,746,941
19.	Guaranty funds receivable or on deposit	205,861		205,861	214,116
20.	Electronic data processing equipment and software				
21.	Furniture and equipment, including health care delivery assets				
	(\$				
22.	Net adjustment in assets and liabilities due to foreign exchange rates				
	Receivables from parent, subsidiaries and affiliates				001 646
23.				,	281,646
24.	Health care (\$) and other amounts receivable				
25.	Aggregate write-ins for other than invested assets				
26.	Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	112 260 602	2 720 001	440 520 501	401 057 700
	· · · · · · · · · · · · · · · · · · ·	443,200,002	2,729,091	440,339,391	421,237,703
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts	4 296 641 558		4,296,641,558	4,278,818,122
28.	Total (Lines 26 and 27)	4,739,910,240	2,729,091	4,737,181,149	4,700,075,825
20.		4,700,010,240	2,723,001	4,707,101,143	4,700,070,020
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page				
1199.	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)				
2501.					
2502.					
2503.	0 () () () () () () () ()				
2598.	Summary of remaining write-ins for Line 25 from overflow page				
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)				

LIABILITIES, SURPLUS AND OTHER FUNDS

	LIADILITIES, SOITI LOS AND OTTILITI O	1	2
		Current Statement Date	December 31 Prior Year
	Aggregate reserve for life contracts \$	135,873,192	136,618,028
2. 3.	Aggregate reserve for accident and health contracts (including \$ Modco Reserve)	11,459,332	9,891,826
	Contract claims: 4.1 Life		
	4.2 Accident and health		
	Policyholders' dividends \$		
0.	6.1 Dividends apportioned for payment (including \$ Modco)		
	6.2 Dividends not yet apportioned (including \$ Modco)		
7.	6.3 Coupons and similar benefits (including \$ Modoo)		
	Amount provisionally held for deferred dividend policies not included in Line 6		
	\$ discount; including \$ accident and health premiums	3,408	2,383
9.	Contract liabilities not included elsewhere:		
	9.1 Surrender values on canceled contracts		
	experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health		
	Service Act	15,761,658	11, 172, 256
	ceded	4,957,319	798,473
	9.4 Interest Maintenance Reserve	326,729	365,578
10.	Commissions to agents due or accrued-life and annuity contracts \$		
11.	\$ and deposit-type contract funds \$ Commissions and expense allowances payable on reinsurance assumed		
12.	General expenses due or accrued		
	Transfers to Separate Accounts due or accrued (net) (including \$(626,281) accrued for expense		
14.	allowances recognized in reserves, net of reinsured allowances)	17,604,190	16,533,168
	Current federal and foreign income taxes, including \$on realized capital gains (losses)		
	Net deferred tax liability		
16.	Unearned investment income	400	16 000
	Amounts withheld or retained by company as agent or trustee		
19.	Remittances and items not allocated	299,288	(275,038)
20.	Net adjustment in assets and liabilities due to foreign exchange rates		
21. 22.	Liability for benefits for employees and agents if not included above		
23.	Dividends to stockholders declared and unpaid		
24.	Miscellaneous liabilities:	4 007 400	4 000 040
	24.01 Asset valuation reserve		
	24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
	24.04 Payable to parent, subsidiaries and affiliates	2,192,503	2,208,982
	24.05 Drafts outstanding		
	24.07 Funds held under coinsurance		
	24.08 Derivatives		
	24.09 Payable for securities		
	24.11 Capital notes \$		
	Aggregate write-ins for liabilities	156,330	515,565
26. 27.	Total liabilities excluding Separate Accounts business (Lines 1 to 25) From Separate Accounts Statement	198,089,163 4,296,641,558	189,956,698 4,278,818,122
	Total liabilities (Lines 26 and 27)	4,494,730,721	4,468,774,820
29.	Common capital stock	2,500,200	2,500,200
30.	Preferred capital stock		
31. 32.	Aggregate write-ins for other than special surplus lunds Surplus notes		
33.	Gross paid in and contributed surplus	143,736,914	143,736,914
34.	Aggregate write-ins for special surplus funds		
35. 36.	Unassigned funds (surplus) Less treasury stock, at cost:	96,213,314	
00.	36.1shares common (value included in Line 29 \$		
	36.2 shares preferred (value included in Line 30 \$		
	Surplus (Total Lines 31+32+33+34+35-36) (including \$	239,950,228 242,450,428	228,800,805 231,301,005
1	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	4,737,181,149	4,700,075,825
	DETAILS OF WRITE-INS		
	Miscellaneous liabilities		297,428
2502. 2503.	Funds awaiting escheat		216,137
2598.	Summary of remaining write-ins for Line 25 from overflow page		
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	156,330	515,565
3102.			
3198.	Summary of remaining write-ins for Line 31 from overflow page		
3199.	Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)		
3401. 3402.			
3403.			
3498.	Summary of remaining write-ins for Line 34 from overflow page		
3499.	Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)		

SUMMARY OF OPERATIONS

		1	2	3
		Current Year	Prior Year	Prior Year Ended
		To Date	To Date	December 31
	Premiums and annuity considerations for life and accident and health contracts		15,090,305	24,468,709
2. 3.	Considerations for supplementary contracts with life contingencies. Net investment income	6,847,463		12.852.135
3. 4.	Amortization of Interest Maintenance Reserve (IMR)			197,060
5.	Separate Accounts net gain from operations excluding unrealized gains or losses		30,772	101,000
	Commissions and expense allowances on reinsurance ceded	2,857,015	2,805,806	5,631,952
7.	Reserve adjustments on reinsurance ceded	(7,365,572)	(9,626,583)	(15,069,413)
8.	Miscellaneous Income:			
	8.1 Income from fees associated with investment management, administration and contract	07 000 074	07.050.047	70 005 005
	guarantees from Separate Accounts		37,952,817	70,035,625
	8.2 Charges and fees for deposit-type contracts 8.3 Aggregate write-ins for miscellaneous income	(348.548)	(660,136)	(932.285)
9.	Totals (Lines 1 to 8.3)	49,473,091	51,703,350	97,183,783
	Death benefits		27,221,102	46,519,558
11.	Matured endowments (excluding guaranteed annual pure endowments)			
12.	Annuity benefits		546,913	918,837
13.	Disability benefits and benefits under accident and health contracts	184,197	301,971	479,467
14.	Coupons, guaranteed annual pure endowments and similar benefits			
15.	Surrender benefits and withdrawals for life contracts	24,787,489	24,234,797	48,806,554
16.	Group conversions		004 007	700 070
17.	Interest and adjustments on contract or deposit-type contract funds	835,1/4	294,897	702,273
18.	Payments on supplementary contracts with life contingencies	(744,836)	2,649,030	4,945,662
19. 20.	Increase in aggregate reserves for life and accident and health contracts	10,001,000	55 040 740	100 000 001
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct	49,021,290	55,248,710	102,3/2,351
	business only)	1,538,640	1,730,857	3,399,662
22.	Commissions and expense allowances on reinsurance assumed			
23.	General insurance expenses	3,763,550		8,068,586
24.	Insurance taxes, licenses and fees, excluding federal income taxes	564,637		1,118,136
25.	Increase in loading on deferred and uncollected premiums		(2,768)	(556)
26.	Net transfers to or (from) Separate Accounts net of reinsurance		(23,324,890)	(45, 187, 681)
27.	Aggregate write-ins for deductions	(161,530)	22,994	62,351
28.	Totals (Lines 20 to 27)	36,518,478	38,264,068	69,832,849
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	12,954,613	13,439,282	27,350,934
30.	Dividends to policyholders	12,004,010	10,400,202	21,000,004
31.	Net gain from operations after dividends to policyholders and before federal income taxes (Line 29			
	minus Line 30)	12,954,613	13,439,282	27,350,934
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	2,013,866	3,218,579	6,658,379
33.	Net gain from operations after dividends to policyholders and federal income taxes and before	40 040 747	10 000 700	00 000 555
0.4	realized capital gains or (losses) (Line 31 minus Line 32)	10,940,747	10,220,703	20,692,555
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$(712) (excluding taxes of \$28,744			
	transferred to the IMR)	(10,393)	(10,547)	(35,042)
35.	Net income (Line 33 plus Line 34)	10.930.354	10.210.156	20.657.513
00.	CAPITAL AND SURPLUS ACCOUNT	10,000,001	10,210,100	20,00.,0.0
36.	Capital and surplus, December 31, prior year	231,301,005	211,693,698	211,693,698
37.	Net income (Line 35)		10,210,156	20,657,513
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$			
39.	Change in net unrealized foreign exchange capital gain (loss)			
40.	Change in net deferred income tax	(878,658)	(791,873)	(1,309,067)
	Change in nonadmitted assets			
42.	Change in liability for reinsurance in unauthorized and certified companies			
43.	Change in reserve on account of change in valuation basis, (increase) or decrease			(040 F0F)
44.	Change in asset valuation reserve			
45. 46.	Change in treasury stock			
47.	Other changes in surplus in Separate Accounts Statement			
48.	Change in surplus notes			
49.	Cumulative effect of changes in accounting principles			
	Capital changes:			
	50.1 Paid in			
	50.2 Transferred from surplus (Stock Dividend)			
	50.3 Transferred to surplus	ļ		
51.	Surplus adjustment:			
	51.1 Paid in			
	51.2 Transferred to capital (Stock Dividend)			
	51.4 Change in surplus as a result of reinsurance			
52.	Dividends to stockholders			
	Aggregate write-ins for gains and losses in surplus			
	Net change in capital and surplus for the year (Lines 37 through 53)	11,149,423	9,970,323	19,607,307
55.	Capital and surplus, as of statement date (Lines 36 + 54)	242,450,428	221,664,021	231,301,005
	DETAILS OF WRITE-INS		-	•
	Sub-advisory fees			
	Other miscellaneous income	366,601	` ' '	608,252
	Summary of remaining write-ins for Line 8.3 from overflow page	(240 540)	/000 400	(000 005)
	Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	(348,548)	(660,136)	(932,285)
	• 1	(161,530)	,	62,351
	Summary of remaining write-ins for Line 27 from overflow page			
	Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	(161,530)	22,994	62,351
	Totals (Lines 2701 tillough 2705 plus 2790)(Line 27 above)	` ' '	22,004	02,001
	Summary of remaining write-ins for Line 53 from overflow page			
5399.	Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)			

CASH FLOW

0,10111 = 0 11			
	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
Cash from Operations			
Premiums collected net of reinsurance	9,674,213	11,059,151	22,222,478
Net investment income	6,418,613	5,471,987	12,057,377
Miscellaneous income	37,177,030	32,746,737	58,356,708
4. Total (Lines 1 to 3)	53,269,856	49,277,875	92,636,563
Benefit and loss related payments	49,644,197	46,558,421	92,108,978
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	(19,276,357)	(22,473,093)	(45, 157, 20
7. Commissions, expenses paid and aggregate write-ins for deductions	6,232,477	5,142,700	13,204,99
8. Dividends paid to policyholders			
9. Federal and foreign income taxes paid (recovered) net of \$64,122 tax on capital			
gains (losses)	1,760,267	(145,034)	4,335,48
10. Total (Lines 5 through 9)	38,360,584	29,082,994	64,492,25
11. Net cash from operations (Line 4 minus Line 10)	14,909,272	20,194,881	28,144,31
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	18,968,605	8,800,630	26,695,56
12.2 Stocks			
12.3 Mortgage loans	972,900	239,938	711,57
12.4 Real estate			
12.5 Other invested assets			
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	(1,154)	10	15
12.7 Miscellaneous proceeds	(4,653)	(1,590,630)	499,60
12.8 Total investment proceeds (Lines 12.1 to 12.7)	19,935,698	7,449,948	27,906,90
13. Cost of investments acquired (long-term only):			
13.1 Bonds	49,039,556	33,494,481	104,592,41
13.2 Stocks			
13.3 Mortgage loans	1,069		2,394,99
13.4 Real estate			
13.5 Other invested assets			
13.6 Miscellaneous applications		(1,759,755)	
13.7 Total investments acquired (Lines 13.1 to 13.6)	49,040,625	31,734,726	106,987,41
14. Net increase (or decrease) in contract loans and premium notes	(1,327,640)	788,427	1,586,26
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(27,777,287)	(25,073,205)	(80,666,77
Cash from Financing and Miscellaneous Sources			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes			
16.2 Capital and paid in surplus, less treasury stock			
16.3 Borrowed funds			
16.4 Net deposits on deposit-type contracts and other insurance liabilities	1,447,259	3,529,344	3,385,21
16.5 Dividends to stockholders			
16.6 Other cash provided (applied)	323,087	305,943	(309,72
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	1,770,346	3,835,287	3,075,49
RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	(11,097,669)	(1,043,037)	(49,446,96
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	04 000 400	110,736,395	110,736,39
19.2 End of period (Line 18 plus Line 19.1)	50,191,759	109,693,358	61,289,42
19.2 End of period (Line 18 plus Line 19.1)		109,693,358	61,289,42
	50,191,759	109,693,358	61,289,42

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

	DIRECT PREMIUMS AND DEPOSIT-TYPE (DONTHACIS	2	3
		Current Year	Prior Year	Prior Year Ended
		To Date	To Date	December 31
1.	Industrial life			
	modular mo			
_	Ordinary life insurance	10 072 442	20 102 920	40 121 000
2.	Ordinary life insurance	10,372,440	20, 192,000	40, 121, 333
		45 000	40, 470	45 000
3.	Ordinary individual annuities	15,230	10,470	15,900
4.	Credit life (group and individual)			
5.	Group life insurance	(4,555,474)	718,269	2,743,977
6.	Group annuities			
7.	A & H - group			
8.	A & H - credit (group and individual)			
	,			
9.	A & H - other			
10.	Aggregate of all other lines of business			
10.	Aggregate of all other lines of business			
	Subtotal	14 422 100	20 021 560	42,881,876
11.	Sudiotal	14,432,199	20,921,569	42,001,070
12.	Deposit-type contracts			
13.	Total	14,432,199	20,921,569	42,881,876
	DETAILS OF WRITE-INS			
1001.				
1002.				
1003.				
1098.	Summary of remaining write-ins for Line 10 from overflow page			
. 555.	Samuel Strang And the fee Ene to home ordinar page			
1099.	Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)			
1033.	Totals (Lines 1001 tillough 1005 plus 1030)(Line 10 above)			

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Note 1 - Summary of Significant Accounting Policies and Going Concern

a. Accounting practices:

The accompanying financial statements of MML Bay State Life Insurance Company (the Company) have been prepared in conformity with the Statutory Accounting Practices (SAP) of the National Association of Insurance Commissioners (NAIC) and the accounting practices prescribed or permitted by the State of Connecticut Insurance Department (the Department).

A reconciliation of the Company's net income and capital and surplus between NAIC SAP and practices prescribed and permitted by the State of Connecticut is shown below:

	State of			
	Domicile	2016		2015
NET INCOME				
(1) State basis (Page 4, Line 35, Columns 1 & 3)	CT	\$ 10,930,354	\$	20,657,513
(2) State prescribed practices that increase (decrease) NAIC SAP	-	-		-
(3) State permitted practices that increase (decrease) NAIC SAP	-	-		-
(4) NAIC SAP (1-2-3=4)	CT	\$ 10,930,354	\$	20,657,513
SURPLUS				
(5) State basis (Page 3, Line 38, Columns 1 & 2)	CT	\$ 242,450,428	\$	231,301,005
(6) State prescribed practices that increase (decrease) NAIC SAP	-	-		-
(7) State permitted practices that increase (decrease) NAIC SAP	-	 	_	
(8) NAIC SAP (5-6-7=8)	CT	\$ 242,450,428	\$	231,301,005

- b. Use of estimates in the preparation of the financial statements No change
- c. Accounting policy:
 - (1-5) No change
 - (6) For fixed income securities that do not have a fixed schedule of payments, such as asset-backed securities, mortgage-backed securities, including residential mortgage-backed securities and commercial mortgage-backed securities, and structured securities, including collateralized debt obligations, amortization or accretion is revalued quarterly based on the current estimated cash flows, using either the prospective or retrospective adjustment methodologies for each type of security.

Certain fixed income securities with the highest ratings from a rating agency follow the retrospective method of accounting. Under the retrospective method, the recalculated effective yield equates the present value of the actual and anticipated cash flows, including new prepayment assumptions, to the original cost of the investment. Prepayment assumptions are based on borrower constraints and economic incentives such as the original term, age and coupon of the loan as affected by the interest rate environment. The current carrying value is then increased or decreased to the amount that would have resulted had the revised yield been applied since inception, and investment income is correspondingly decreased or increased.

All other fixed income securities, such as floating rate bonds and interest only securities, including those that have been impaired, follow the prospective method of accounting. Under the prospective method, the recalculated future effective yield equates the carrying value of the investment to the present value of the anticipated future cash flows.

(7-14) No change

d. Going concern - No change

Note 2 - Accounting Changes and Corrections of Errors

a. For the six months ended June 30, 2016 and 2015, the Company did not record any corrections of prior year errors.

Certain prior year amounts within these financial statements have been reclassified to conform to the current year presentation.

Adoption of new accounting standards

In June, 2016, the NAIC adopted modifications to SSAP No. 92, *Postretirement Benefits Other than Pensions*, and SSAP No. 102, *Pensions*, which was effective on June 9, 2016. The modification allows that the spot curve yield curve method can be used as an alternative to the single weighted average discount rate to measure net periodic benefit cost. Under SSAPs No. 92 and 102, the most commonly used approach for pension plans is to develop a single weighted-average discount rate, which is determined at the pension plan measurement date based on the projected future benefit payments used in determining the pension obligation. The alternative approach (also referred to as the "Spot Rate" or disaggregated approach) measures the service cost and interest cost components of net periodic benefit cost by using individual (disaggregated) duration-specific spot (discount) rates derived from an acceptable high-quality corporate bond yield curve and matched with separate cash flows for each future year. The adoption of this guidance is not expected to have an impact on the Company's financial statements.

Note 3 - Business Combinations and Goodwill - No change

Note 4 - Discontinued Operations - No change

Note 5 - Investments

- Mortgage loans No change
- b. Debt restructuring No change
- c. Reverse mortgages No change
- d. Loan-backed and structured securities:
 - (1) Prepayment assumptions for loan-backed and structured securities are based on various assumptions and inputs obtained from external industry sources along with internal analysis and actual experience.
 - (2) The following contains loan-backed and structured securities that recognized OTTI classified on the following bases for recognizing OTTI:

			(1)	(2) OTTI			(3)		
			Amortized		Re	cogniz	red		
			Cost Basis			n Loss			
		ĺ	Before	(2	a)	(2k	o)		Fair Value
			OTTI	Inte	rest	Non	n-interest		1-(2a+2b)
	I recognized in the first quarter	Φ		Φ.		Φ.		Φ.	
a. b.	Intent to sell Inability or lack of intent to retain the investment	\$	-	\$	-	\$	-	\$	-
D.	in the security for a period of time sufficient to								
	recover the amortized cost basis		_		_		_		_
C.	Total first quarter	\$		\$		\$	_	\$	_
	·	_							
	Π recognized in the second quarter								
d.	Intent to sell	\$	-	\$	-	\$	-	\$	-
e.	Inability or lack of intent to retain the investment								
	in the security for a period of time sufficient to recover the amortized cost basis		76 027				6.450		70 205
f.	Total second quarter	\$	76,837 76,837	\$		\$	6,452 6,452	\$	70,385 70,385
1.	Total Second quarter	Ψ	70,037	Ψ	<u> </u>	Ψ	0,432	Ψ	70,363
OTT	I recognized in the third quarter								
g.	Intent to sell	\$	-	\$	-	\$	-	\$	-
h.	Inability or lack of intent to retain the investment								
	in the security for a period of time sufficient to								
	recover the amortized cost basis	_						_	
i.	Total third quarter	\$	-	\$		\$		\$	-
OT	Il recognized in the fourth quarter								
j.	Intent to sell	\$	_	\$	_	\$	_	\$	_
k.	Inability or lack of intent to retain the investment	Ť		·		•		•	
	in the security for a period of time sufficient to								
	recover the amortized cost basis	_							-
I.	Total fourth quarter	\$		\$		\$		\$	
m	Appual Aggregate Total			\$		Φ	6,452		
m.	Annual Aggregate Total			Φ		\$	0,432		

All impairments were taken due to the present value of cash flows expected to be collected being less than the amortized cost basi

(3) The following is a CUSIP detail list of impaired structured securities where the present value of cash flows expected to be collected is less than the amortized cost basis.

	CUSIP	Amortized Cost before OTTI	Projected Cash Flow	Recognized OTTI	Amortized Cost after OTTI	Fair Value at Time of OTTI	Date of Financial Instrument Where Reported
ſ	79549ASM2	\$ 76,837.00	\$ 70,385.00	\$ (6,452.00)	\$ 70,385.00	\$ 72,517.00	June 30, 2016

- (4) As of June 30, 2016, the gross unrealized losses and fair values for investments in structured and loan-backed securities for which an OTTI has not been recognized in earnings follow:
 - a. The aggregate amount of unrealized losses:
 - 1. Less than 12 months
 \$ (93,649)

 2. 12 months or longer
 \$ (432,048)
 - b. The aggregate related fair value of securities with unrealized losses:
 - 1. Less than 12 months
 \$ 5,235,167

 2. 12 months or longer
 \$ 9,797,812
- (5) No change
- e. Repurchase agreements:
 - (1-2) No change
 - (3) The Company does not have any securities lending transactions administered by an affiliated agent.
 - (4-6) No change
- f. The Company does not have any investments in real estate.
- g. Low income housing tax credit properties No change
- h. Restricted assets No change
- i. Working capital finance investments The Company did not invest in working capital finance investments.
- j. Offsetting and netting of assets and liabilities The Company does not currently hold derivatives, repurchase agreements, reverse repurchase agreements or securities lending assets and liabilities.

Structured notes:

A structured note is a direct debt issuance by a corporation, municipality, or government entity, ranking pari-passu with the issuer's other debt issuance of equal seniority where either: (a) the coupon and/or principal payments are linked, in whole or in part, to prices or payment streams from index or indices, or assets deriving their value from other than the issuer's credit quality, or (b) the coupon and/or principal payments are leveraged by a formula that is different from either a fixed coupon, or a non-leveraged floating rate coupon linked to an interest rate index, including but not limited to the London Interbank Offered Rate (LIBOR) or the prime rate. As structured notes are issuer obligations without a trust, they are within the scope of SSAP No. 26, "Bonds, Excluding Loan-backed and Structured Securities" (SSAP No. 26). Structured notes are different than the asset backed structured securities, which are accounted for under SSAP No. 43R, "Revised - Loan-Backed and Structured Securities" (SSAP No. 43R), as they lack either a trust or assets backing them. The disclosure below allows regulators to assess the volume of activity in structured notes and to determine whether additional accounting or reporting revisions, such as valuation and risk-based capital, are needed. To satisfy this request, the Company is required to separately identify structured notes, on a CUSIP basis and provide information by CUSIP for actual cost, fair value, book/adjusted carrying value, and whether the structured note is a mortgage-referenced security. The following sets forth the actual cost, fair value and carrying value of structured notes as of June 30, 2016:

CUSIP Identification	Actual Cost	Fa	ir Value	ook / Adjusted Carrying Value	Mortgage- Referenced Security (YES/NO)
391164AF7	\$ 526,870	\$	531,278	\$ 524,538	NO

Note 6 - Joint Ventures, Partnerships and Limited Liability Companies - No change

Note 7 - Investment Income - No change

Note 8 - Derivative Instruments - No change

Note 9 - Income Taxes - No change

Note 10 - Information Concerning Parent, Subsidiaries and Affiliates

No change a-I.

Note 11 - Debt

- No change
- The Company is not a member of the Federal Home Loan Bank (FHLB) therefore it has no FHLB funding agreements.

Note 12 - Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Postretirement Benefit Plans

- Defined Benefit Plan
 - (1-3) No change
 - (4) The company did not have any defined benefit pension plans for which the reporting entity is directly liable.
 - (5-21) No change
- b-j. No change

Note 13 - Capital and Surplus, Shareholders' Dividend Restrictions and Quasi-Reorganizations - No change

Note 14 – Liabilities, Contingencies and Assessments a. Contingent commitments – No change

- Assessments No change b.
- Gain contingencies No change C.
- d. Claims related to extra contractual obligations - No change
- All other contingencies:

The Company is involved in litigation arising in the normal course of business, which seeks compensatory damages, punitive damages and equitable remedies. Although the Company is not aware of any actions or allegations that reasonably should give rise to a material adverse impact to the Company's financial position or liquidity, the outcome of litigation cannot be foreseen with certainty. It is the opinion of management that the ultimate resolution of these matters will not materially impact the Company's financial position or liquidity. However, the outcome of a particular proceeding may be material to the Company's results of operations for a particular period depending upon, among other factors, the size of the loss and the level of the Company's results of operations for the period.

Regulatory matters:

The Company is subject to governmental and administrative proceedings and regulatory inquiries, examinations and investigations in the ordinary course of its business. In connection with regulatory inquiries, examinations and investigations, the Company has been contacted by various regulatory agencies including, among others, the Securities and Exchange Commission, the U.S. Department of Labor and various state insurance departments and state attorneys general. The Company has cooperated fully with these regulatory agencies with regard to their inquiries, examinations and investigations and has responded to information requests and comments.

Market volatility in the financial services industry over the last several years has contributed to increased scrutiny of the entire financial services industry. Therefore, the Company believes that it is reasonable to expect that proceedings, regulatory inquiries, examinations and investigations into the insurance and financial services industries will continue for the foreseeable future. Additionally, new industry-wide legislation, rules and regulations could significantly affect the insurance and financial services industries as a whole. It is the opinion of management that the ultimate resolution of these regulatory inquiries, examinations, investigations, legislative and regulatory changes of which we are aware will not materially impact the Company's financial position or

liquidity. However, the outcome of a particular matter may be material to the Company's operating results for a particular period depending upon, among other factors, the financial impact of the matter and the level of the Company's results of operations for the period.

Note 15 - Leases - No change

Note 16 – Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk - No change

Note 17 - Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities

- a. Transfers of receivables reported as sales No change
- b. Transfer and Servicing of Financial Assets:
 - (1) No change
 - (2) The Company did not have any servicing assets or liabilities in 2016 or 2015.
 - (3) No change
 - (4) The Company did not have interests that continue to be held by a transferor in securitized financial assets in 2016 or 2015.
 - (5-7) No change
- c. Wash sales:
 - (1) In the course of the Company's investment management activities, securities may be sold and reacquired within 30 days to enhance the Company's yield on its investment portfolio.
 - (2) The Company did not sell any securities with the NAIC Designation 3 or below through the second quarter ended June 30, 2016 that were reacquired within 30 days of the sale date.

Note 18 - Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans - No change

Note 19 - Direct Premium Written/Produced By Managing General Agents/Third Party Administrators - No change

Note 20 - Fair Value Measurements

- a. Fair value is defined as the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The authoritative guidance around fair value establishes a measurement framework that includes a hierarchy used to classify the inputs used in measuring fair value. The hierarchy prioritizes the inputs to valuation techniques into three levels. Each level reflects a unique description of the inputs that are significant to the fair value measurements. The levels of the fair value hierarchy are as follows:
 - Level 1 Observable inputs in the form of quoted prices for identical instruments in active markets.
 - Level 2 Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, quoted prices in markets that are not active or other inputs that are observable or can be derived from observable market data for substantially the full term of the assets or liabilities.
 - Level 3 One or more unobservable inputs that are supported by little or no market activity and are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using internal models, as well as instruments for which the determination of fair value requires significant management judgment or estimation.

When available, the Company generally uses unadjusted quoted market prices from independent sources to determine the fair value of investments, and classifies such items within Level 1 of the fair value hierarchy. If quoted prices are not available, prices are derived from observable market data for similar assets in an active market or obtained directly from brokers for identical assets traded in inactive markets. Investments that are priced using these inputs are classified within Level 2 of the fair value hierarchy. When some of the necessary observable inputs are unavailable, fair value is based upon internally developed models. These models use inputs not directly observable or correlated with observable market data. Typical inputs, which are integrated in the Company's internal discounted cash flow models and discounted earnings models include, but are not limited to, issuer spreads derived from internal credit ratings and benchmark yields such as the London Interbank Offered Rate (LIBOR), cash flow estimates and earnings before interest, taxes, depreciation and amortization estimates. Investments that are priced with such unobservable inputs are classified within Level 3 of the fair value hierarchy.

The Company has established and maintains policies and guidelines that govern its valuation methodologies and their consistent application. These policies and guidelines address the use of inputs, price source hierarchies and provide controls around the valuation processes. These controls include appropriate review and analysis of prices against market activity or indicators for reasonableness, approval of price source changes, price overrides, methodology changes and classification of fair value hierarchy levels. The valuation policies and guidelines are reviewed and updated as appropriate.

Annually, the Company reviews the primary pricing vendor to validate that the inputs used in that vendor's pricing process are deemed to be market observable as defined above. While the Company was not provided access to proprietary models of the vendor, the reviews have included on-site walk-throughs of the pricing process, methodologies and control procedures for each asset class and level for which prices are provided. The review also included an examination of the underlying inputs and assumptions for a sample of individual securities across asset classes. In addition, the Company and its pricing vendors have an established challenge process in place for all security valuations, which facilitates identification and resolution of prices that fall outside expected ranges. The Company believes that the prices received from the pricing vendors are representative of prices that would be received to sell the assets at the applicable measurement date (exit prices) and are classified appropriately in the hierarchy.

The fair value of individual annuity and supplementary contracts is determined using one of several methods based on the specific contract type. For short-term contracts, generally less than 30 days, the fair value is assumed to be the book value. For investment-type contracts, the fair value is determined by calculating the present value of future cash flows discounted at current market interest rates, the risk-free rate or a current pricing yield curve based on pricing assumptions using assets of a comparable corporate bond quality. Annuities are valued using cash flow projections from the Company's asset-liability management analysis.

1. The following presents the Company's fair value hierarchy for assets and liabilities that are carried at fair value:

	June 30, 2016						
	Level 1	Level 2	Level 3	Total			
Financial assets:							
Separate account assets ⁽¹⁾	\$ 893,981,616	\$ 2,304,743,396	\$	- \$ 3,198,725,012			
Total financial assets carried							
at fair value	\$ 893,981,616	\$ 2,304,743,396	\$	- \$ 3,198,725,012			

^{(1)\$1,097,916,546} of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

In 2016, there were no significant transfers between Level 1 and Level 2.

	Decembe	r 31, 2015	
Level 1	Level 2	Level 3	Total
\$ 920,856,788	\$ 2,266,948,730	\$	- \$ 3,187,805,518
\$ 920,856,788	\$ 2,266,948,730	\$	- \$ 3,187,805,518
	\$ 920,856,788	Level 1 Level 2 \$ 920,856,788 \$ 2,266,948,730	\$ 920,856,788 \$ 2,266,948,730 \$

^{(1)\$1,091,012,604} of book value separate account assets are not carried at fair value and, therefore, are not included in this table.

For the year ended December 31, 2015, there were no significant transfers between Level 1 and Level 2.

- 2. The Company does not have any Level 3 financial instruments that are carried at fair value.
- 3. The Company reviews the fair value hierarchy classifications at each reporting period. Overall, reclassifications between levels occur when there are changes in the observability of inputs and market activity used in the valuation of a financial asset or liability. Such reclassifications are reported as transfers between levels at the beginning fair value for the reporting period in which the changes occur. Given the types of assets classified as Level 1 (primarily equity securities and mutual fund investments), transfers between Level 1 and Level 2 measurement categories are expected to be infrequent. Transfers into and out of Level 3 are summarized in the schedule of changes in Level 3 assets and liabilities. There are no financial assets or liabilities classified as Level 3 in 2016 and 2015.
- 4. Valuation Techniques and Inputs

The Company determines the fair value of its investments using primarily the market approach or the income approach. The use of quoted prices for identical assets and matrix pricing or other similar techniques are examples of market approaches, while the use of discounted cash flow methodologies is an example of the income approach. The Company attempts to maximize the use of observable inputs and minimize the use of unobservable inputs in selecting whether the market or the income approach is used.

A description of the significant valuation techniques and inputs to the determination of estimated fair value for the more significant asset and liability classes measured at fair value on a recurring basis and categorized within Level 2 and Level 3 of the fair value hierarchy is as follows:

Separate account assets - These assets primarily include bonds (industrial and miscellaneous; U.S. government and agencies) and derivatives. Their fair values are determined as follows:

Bonds (Industrial and miscellaneous) - These securities are principally valued using the market or the income approaches. Level 2 valuations are based primarily on quoted prices in markets that are not active, broker quotes, matrix pricing or other similar techniques that use standard market observable inputs such as benchmark yields, spreads versus benchmark yields, new issuances, issuer rating, duration, and trades of identical or comparable securities. Privately placed securities are valued using discounted cash flow models using standard market observable inputs, and inputs derived from, or corroborated by, market observable data including market yield curve, duration, call provisions, observable prices and spreads for similar publicly traded or privately traded issues that incorporate the credit quality and industry sector of the issuer. This level also includes securities priced by independent pricing services that use observable inputs. Valuations based on matrix pricing or other similar techniques that utilize significant unobservable inputs or inputs that cannot be derived principally from, or corroborated by, observable market data, including adjustments for illiquidity, delta spread adjustments or spreads to reflect industry trends or specific credit-related issues are classified as Level 3. In addition, inputs including quoted prices for identical or similar securities that are less liquid and based on lower levels of trading activity than securities classified in Level 2 are classified as Level 3.

Bonds (U.S. government and agencies) - These securities are principally valued using the market approach. Level 2 valuations are based primarily on quoted prices in markets that are not active, or using matrix pricing or other similar techniques using standard market observable inputs such as the benchmark U.S. Treasury yield curve, the spreads versus the U.S. Treasury yield curve for the identical security and comparable securities that are actively traded.

Derivative assets and liabilities - These financial instruments are primarily valued using the market approach. The estimated fair value of derivatives is based primarily upon quotations obtained from counterparties and independent sources, such as quoted market values received from brokers. These quotations are compared to internally derived prices and a price challenge is lodged with the counterparties and an independent source when a significant difference cannot be explained by appropriate adjustments to the internal model. When quoted market values are not reliable or available, the value is based upon an internal valuation process using market observable inputs that other market participants would use. Significant inputs to the valuation of derivative financial instruments include, overnight index swaps and LIBOR basis curves, interest rate volatility, swap yield curve, currency spot rates, cross currency basis curves and dividend yields. Due to the observability of the significant inputs to these fair value measurements, they are classified as Level 2.

The use of different assumptions or valuation methodologies may have a material impact on the estimated fair value amounts. For the periods presented, there were no significant changes to the Company's valuation techniques.

- Derivative assets and liabilities fair value disclosures on a gross basis are included in paragraph 1 above. Since there are no derivative assets or liabilities classified in Level 3, the reconciliation disclosures required under paragraphs 2 through 4 are not applicable.
- b. The Company provides additional fair value information in Note 21.
- C. The following presents a summary of the carrying values and fair values of the Company's financial instruments:

			June 30, 2016			
	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Not Practicable (Carrying Value)
Financial assets:						
Bonds:						
U. S. government and agencies	\$ 55,454,590	\$ 54,312,305	\$ - \$	55,454,590	\$ -	\$ -
Special revenue	86,508	77,078	-	86,508	-	-
Industrial and miscellaneous	207,127,684	198,336,319	=	196,136,547	10,991,137	-
Parent, subsidiaries and affiliates	271,529	226,929	=	271,529	-	-
Mortgage loans - residential	4,865,204	4,870,093	=	-	4,865,204	-
Cash, cash equivalents and						
short-term investments	50,191,759	50,191,759	(1,635,809)	51,827,568	-	-
Separate account assets	4,338,872,239	4,296,641,558	893,981,616	3,426,871,604	18,019,019	-
Financial liabilities:						
Individual annuity contracts	2,302,124	3,172,933	-	-	2,302,124	-
Supplementary contracts	11,521,178	11,407,107	-	-	11,521,178	-

			December 31	, 20	115			
	Aggregate Fair Value	Admitted Assets	Level 1		Level 2	Level 3	(0	Not acticable Carrying Value)
Financial assets:								
Bonds:								
U. S. government and agencies	\$ 54,012,879	\$ 54,269,462	\$ -	\$	54,012,879	\$ -	\$	-
Special revenue	97,732	88,536	-		97,732	-		-
Industrial and miscellaneous	167,805,616	166,830,245	-		156,151,861	11,653,755		-
Parent, subsidiaries and affiliates	1,667,302	1,640,703	-		1,667,302	-		-
Mortgage loans - residential	5,745,384	5,847,458	-		-	5,745,384		-
Cash, cash equivalents and								
short-term investments	61,289,428	61,289,428	1,211,195		60,078,233	-		-
Separate account assets	4,285,418,011	4,278,818,122	920,856,788		3,345,522,236	19,038,987		-
Financial liabilities:								
Individual annuity contracts	2,266,224	3,168,097	-		-	2,266,224		-
Supplementary contracts	9,928,086	9,829,788	-		-	9,928,086		-

d. For the six months ended June 30, 2016, the Company had no investments where it was not practicable to estimate fair value.

Note 21 - Other Items

- a. Unusual or infrequent items No change
- b. Troubled debt restructuring No change
- c. Other disclosures and unusual items

Business risks

The Company operates in a business environment subject to various risks and uncertainties. The principal risks include insurance and underwriting risks, investment and interest rate risks and credit risk. The combined impact of these risks could have a material, adverse effect on the Company's financial statements or result in operating losses in future periods. The Company employs the use of reinsurance, portfolio diversification, asset/liability management processes and other risk management techniques to mitigate the impact of these risks. This condensed risks and uncertainties disclosure should be read in conjunction with the disclosure in the Company's 2015 Annual Statement.

Insurance and underwriting risks

The Company prices its products based on estimated benefit payments reflecting assumptions with respect to mortality, morbidity, longevity, persistency, interest rates and other factors. If actual policy experience emerges that is significantly and adversely different from assumptions used in product pricing, the effect could be material to the profitability of the Company. The Company reinsures certain life insurance policies to mitigate the impact of its underwriting risk.

Investment and interest rate risks

The fair value, cash flows and earnings of investments can be influenced by a variety of factors including changes in interest rates, credit spreads, equity markets, portfolio asset allocation and general economic conditions. The Company employs a rigorous asset/liability management process to help mitigate the economic impacts of various investment risks, in particular interest rate risk. By effectively matching the market sensitivity of assets with the liabilities they support, the impact of interest rate changes is addressed, on an economic basis, as the change in the value of the asset is offset by a corresponding change in the value of the supported liability.

The levels of U.S. interest rates are influenced by U.S. monetary policies and by the relative attractiveness of U.S. markets to investors versus other global markets. As interest rates increase, certain debt securities may experience amortization or prepayment speeds that are slower than those assumed at purchase, impacting the expected maturity of these securities and the ability to reinvest the proceeds at the higher yields. Rising interest rates may also result in a decrease in the fair value of the investment portfolio. As interest rates decline, certain debt securities may experience accelerated amortization and prepayment speeds than what was assumed at purchase. During such periods, the Company is at risk of lower net investment income as it may not be able to reinvest the proceeds at comparable yields. Declining interest rates may also increase the fair value of the investment portfolio.

Interest rates also have an impact on the Company's products with guaranteed minimum payouts and on interest credited to account holders. As interest rates decrease, investment spreads may contract as crediting rates approach minimum guarantees, resulting in an increased liability.

In periods of increasing interest rates, policy loans, surrenders and withdrawals may increase as policyholders seek investments with higher perceived returns. This could result in cash outflows requiring the Company to sell invested assets at a time when the prices of those assets are adversely affected by the increase in market interest rates, which could cause the Company to realize investment losses.

Credit and other market risks

The Company manages its investments to limit credit and other market risks by diversifying its portfolio among various security types and industry sectors as well as purchasing credit default swaps to transfer some of the risk.

Stressed conditions, volatility and disruptions in capital markets or financial asset classes can have an adverse effect on the Company, in part because the Company has a large investment portfolio and assets supporting the Company's insurance liabilities are sensitive to changing market factors. Market factors, including interest rates, credit spread quality, equity prices, consumer spending, business investment, government spending, the volatility and strength of the capital markets, deflation and inflation, all affect the business and economic environment and, ultimately, the profitability of the Company's business. Disruptions in one market or asset class can also spread to other markets or asset classes. Upheavals in the financial markets can also affect the Company's business through their effects on general levels of economic activity, employment and customer behavior.

Asset-based fees calculated as a percentage of the separate account assets are a source of revenue to the Company. Gains and losses in the investment markets may result in corresponding increases and decreases in the Company's separate account assets and related revenue.

Political Uncertainties

Political events, such as the ongoing volatility with respect to the European Union, may trigger or exacerbate the risk factors described above. Whether those underlying risk factors are driven by politics or not, the Company's dynamic approach to managing risks enables us to utilize the mitigating actions described above to attempt to reduce the potential impact of each underlying risk factor on the Company.

- d. Business interruption insurance recoveries No change
- e. State transferrable tax credits No change
- f. Subprime mortgage related risk exposure:
 - (1) No change
 - (2) No change
 - (3) The actual cost reduced by paydowns, carrying value, fair value and related gross realized losses from OTTI of the Company's investments with significant Alt-A and subprime exposure were as follows:

		Ju	ıne 30, 2016		Six	Months Ended June 30, 2016
Alt-A:	Actual Cost	(Carrying Value	Fair Value		ОТТІ
a. Residential mortgage-backed securities \$	2,191,201	\$	1,429,679	\$ 1,854,023	\$	-
b. Commercial mortgage-backed securities	-		-	-		-
c. Collateralized debt obligations	-		-	-		-
d. Structured securities	-		-	-		-
e. Equity investments in subsidiary	-		-	-		-
and controlled affiliates	-		-	-		-
f. Other assets	-		-	-		
g. Total	2,191,201	\$	1,429,679	\$ 1,854,023	\$	-

	June 30, 2016						Months Ended June 30, 2016
	Actual	(Carrying		Fair		
Subprime:	Cost		Value		Value		OTTI
a. Residential mortgage-backed securities \$	3,448,959	\$	1,863,613	\$	2,271,069	\$	(6,452)
b. Commercial mortgage-backed securities	-		-		-		-
c. Collateralized debt obligations	-		-		-		-
d. Structured securities	-		-		-		-
e. Equity investments in subsidiary	-		-		-		-
and controlled affiliates	-		-		-		-
f. Other assets	-		-		-		
g. Total \$	3,448,959	\$	1,863,613	\$	2,271,069	\$	(6,452)
		·	·	-	-	·	

_		Dec	ember 31, 201	5		-	ear Ended mber 31, 20	15_
	Actual		Carrying		Fair			
Alt-A:	Cost		Value		Value	OTTI		
a. Residential mortgage-backed securities \$	2,337,013	\$	1,542,651	\$	1,965,258	\$		-
b. Commercial mortgage-backed securities	-		-		-			-
c. Collateralized debt obligations	-		-		-			-
d. Structured securities	-		-		-			-
e. Equity investments in subsidiary								
and controlled affiliates	-		-		-			-
f. Other assets	-		-		-			
g. Total	2,337,013	\$	1,542,651	\$	1,965,258	\$		

		Dece	ember 31, 201	5			Year Ended ember 31, 2015
	Actual	Carrying			Fair		
Subprime:	 Cost		Value		Value		OTTI
a. Residential mortgage-backed securities	\$ 3,612,086	\$	1,934,794	\$	2,412,225	\$	(2,337)
b. Commercial mortgage-backed securities	-		-		-		-
c. Collateralized debt obligations	-		-		-		-
d. Structured securities	-		-		-		-
e. Equity investments in subsidiary							
and controlled affiliates	-		-		-		-
f. Other assets	-		-		-		-
g. Total	\$ 3,612,086	\$	1,934,794	\$	2,412,225	\$	(2,337)

⁽⁴⁾ The Company has no underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty insurance coverage.

Note 22 - Events Subsequent

Management of the Company has evaluated subsequent events through August 12, 2016, the date the financial statements were available to be issued. No events have occurred subsequent to the date of the statement of financial position and before the date of evaluation that would require disclosure.

Note 23 - Reinsurance - No change

Note 24 - Retrospectively Rated Contracts and Contracts Subject to Redetermination - No change

Note 25 – Change in Incurred Losses and Loss Adjustment Expenses

There was no increase to reserves in 2016 for incurred losses and loss adjustment expenses attributable to insured events of prior years, which were considered corrections of prior year errors.

Note 26 - Intercompany Pooling Arrangements - No change

Note 27 - Structured Settlements - No change

Note 28 - Health Care Receivables - No change

Note 29 - Participating Policies - No change

Note 30 - Premium Deficiency Reserves - No change

Note 31 - Reserves for Life Contracts and Annuity Contracts - No change

Note 32 - Analysis of Annuity Actuarial Reserves and Deposit Type Liabilities by Withdrawal Characteristics - No change

Note 33 - Premium and Annuity Considerations Deferred and Uncollected - No change

Retained asset accounts - No change

Note 34 – Separate Accounts - No change

Note 35 - Loss/Claim Adjustment Expenses - No change

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES

GENERAL

1.1	Did the reporting entity experience any material transactions requirin Domicile, as required by the Model Act?					Yes []	No [X]
1.2	If yes, has the report been filed with the domiciliary state?					Yes []	No []
2.1	Has any change been made during the year of this statement in the reporting entity?					Yes []	No [X]
2.2	If yes, date of change:				<u></u>		
3.1	Is the reporting entity a member of an Insurance Holding Company S is an insurer? If yes, complete Schedule Y, Parts 1 and 1A.					Yes [X]	No []
3.2	Have there been any substantial changes in the organizational chart	since the prior quarter end?				Yes []	No [X]
3.3	If the response to 3.2 is yes, provide a brief description of those char	nges.					
4.1	Has the reporting entity been a party to a merger or consolidation de	uring the period covered by this sta	atement?			Yes []	No [X]
4.2	If yes, provide the name of the entity, NAIC Company Code, and staceased to exist as a result of the merger or consolidation.	te of domicile (use two letter state	abbreviation) for any	entity that h	ias		
	1 Name of Entity	2 NAIC Company	Code State of Do	omicile			
5.	If the reporting entity is subject to a management agreement, includi in-fact, or similar agreement, have there been any significant change if yes, attach an explanation.] No [)	[] N/A []
6.1	State as of what date the latest financial examination of the reporting	g entity was made or is being made	ə		<u>-</u>	12/3	1/2014
6.2	State the as of date that the latest financial examination report beca date should be the date of the examined balance sheet and not the					12/3	1/2014
6.3	State as of what date the latest financial examination report became the reporting entity. This is the release date or completion date of the date).	ne examination report and not the	date of the examinat	ion (balance	sheet	05/3 ⁻	1/2016
6.4 6.5	By what department or departments? State of Connecticut Insurance Department. Have all financial statement adjustments within the latest financial estatement filed with Departments?	xamination report been accounted	for in a subsequent	inancial] 20V	1 No f	1 N/A [Y 1
6.6	Have all of the recommendations within the latest financial examinat						
7.1	Has this reporting entity had any Certificates of Authority, licenses of revoked by any governmental entity during the reporting period?	registrations (including corporate	registration, if applic	able) susper	nded or		No [X]
7.2	If yes, give full information:						
3.1	Is the company a subsidiary of a bank holding company regulated by	the Federal Reserve Board?				Yes []	No [X]
3.2	If response to 8.1 is yes, please identify the name of the bank holding	g company.					
3.3	Is the company affiliated with one or more banks, thrifts or securities	firms?				Yes [X]	No []
3.4	If response to 8.3 is yes, please provide below the names and locati regulatory services agency [i.e. the Federal Reserve Board (FRB), Insurance Corporation (FDIC) and the Securities Exchange Commit	the Office of the Comptroller of the	Currency (OCC), th	e Federal D	federal eposit		
	1 Affiliate Name	2 Location (City, Sta	ate)	3 4 FRB OCC	5 C FDIO	6 SEC	
	Babson Capital Securities, LLC Baring International Investment Limited	Boston, MA London, UK				YES	
	MML Distributors, LLC	Enfield, CT				YES	
	MML Investment Advisers, LLC	Enfield, CT				YES	
	MML Investors Services, LLC	Springfield, MA					
	MML Strategic Distributors, LLC	Springfield, MA				YES	
	MMLISI Financial Alliances, LLC	Springfield, MA				YES	
	OppenheimerFunds Distributor, Inc.	New York, NY				YES	
	Lagrangery of Chrowolous 111.					100	

Enfield, CT

The MassMutual Trust Company, FSB

GENERAL INTERROGATORIES

9.1	Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions) of the reporting entity subject to a code of ethics, which includes the following standards? (a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships; (b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting entity; (c) Compliance with applicable governmental laws, rules and regulations; (d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and (e) Accountability for adherence to the code.								
9.11	If the response to 9.1 is No, please explain:								
9.2	Has the code of ethics for senior managers been amended?	Yes [] No [X]							
9.21	If the response to 9.2 is Yes, provide information related to amendment(s).								
9.3 9.31	Have any provisions of the code of ethics been waived for any of the specified officers? If the response to 9.3 is Yes, provide the nature of any waiver(s).	Yes [] No [X]							
	FINANCIAL								
10.1	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement?	Yes [X] No []							
10.2	If yes, indicate any amounts receivable from parent included in the Page 2 amount:	0							
11.1 11.2	INVESTMENT Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or otherwise made available for use by another person? (Exclude securities under securities lending agreements.) If yes, give full and complete information relating thereto:	Yes [] No [X]							
12.	Amount of real estate and mortgages held in other invested assets in Schedule BA:\$								
13.	Amount of real estate and mortgages held in short-term investments:								
14.1 14.2	Does the reporting entity have any investments in parent, subsidiaries and affiliates?	Yes [X] No []							
14.21 14.22 14.23 14.24 14.25 14.26 14.27	1	2 Current Quarter Book/Adjusted Carrying Value \$							
15.1 15.2	Has the reporting entity entered into any hedging transactions reported on Schedule DB? If yes, has a comprehensive description of the hedging program been made available to the domiciliary state?	Yes [] No [X] Yes [] No []							

GENERAL INTERROGATORIES

16.		ending program, state the amount of the	•		•		
				1 and 2.			
				Schedule DL, Parts 1 and 2			
	16.3 Total payable	for securities lending reported on the li	lability page		Ъ		
17. 17.1	offices, vaults or safety deposit bo custodial agreement with a qualifie Outsourcing of Critical Functions,	exes, were all stocks, bonds and other sed bank or trust company in accordance	securities, owned throughouse with Section 1, III - Gene of the NAIC Financial Con-	eral Examination Considerations, F. dition Examiners Handbook?		[X] No []
		1		2			
		Custodian(s)		Custodian Address			
	Citibank, N.A.		333 West 34th Street New	v York, NY 10001			
17.2	For all agreements that do not com location and a complete explanation	ply with the requirements of the NAIC Fon:	Financial Condition Examin	ners Handbook, provide the name,			
	1	2		3			
	Name(s)	Location(s)		Complete Explanation(s)			
17.3 17.4	Have there been any changes, including tyes, give full information relating t		s) identified in 17.1 during	the current quarter?	Yes [] No [X	[]
	1	2	3	4			
	Old Custodian	New Custodian	Date of Change	Reason			
17.5		okers/dealers or individuals acting on be rity to make investments on behalf of the		have access to the investment accounts,			
	1	2		3			
	Central Registration Depository	Name(s)		Address			
	106006	Babson Capital Management, LLC	1500 Main St	treet, Springfield, MA 01115			
		<u> </u>					
18.1	Have all the filing requirements of the	he Purposes and Procedures Manual o	of the NAIC Investment Ana	alysis Office been followed?	Yes [X] No []
18.2	If no, list exceptions:						

GENERAL INTERROGATORIES

PART 2 - LIFE & HEALTH

1.	Report the statement value of mortgage loans at the end of this reporting period for the following categories:	1 Amount
	1.1 Long-Term Mortgages In Good Standing	Amount
	1.11 Farm Mortgages	\$
	1.12 Residential Mortgages	\$4,870,093
	1.13 Commercial Mortgages	\$
	1.14 Total Mortgages in Good Standing	\$4,870,093
	1.2 Long-Term Mortgages In Good Standing with Restructured Terms	
	1.21 Total Mortgages in Good Standing with Restructured Terms	\$
	1.3 Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months	
	1.31 Farm Mortgages	\$
	1.32 Residential Mortgages	\$
	1.33 Commercial Mortgages	\$
	1.34 Total Mortgages with Interest Overdue more than Three Months	\$
	1.4 Long-Term Mortgage Loans in Process of Foreclosure	
	1.41 Farm Mortgages	\$
	1.42 Residential Mortgages	\$
	1.43 Commercial Mortgages	\$
	1.44 Total Mortgages in Process of Foreclosure	\$
1.5	Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)	\$4,870,093
1.6	Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter	
	1.61 Farm Mortgages	\$
	1.62 Residential Mortgages	\$
	1.63 Commercial Mortgages	\$
	1.64 Total Mortgages Foreclosed and Transferred to Real Estate	\$
2.	Operating Percentages:	
	2.1 A&H loss percent	%
	2.2 A&H cost containment percent	%
	2.3 A&H expense percent excluding cost containment expenses	%
3.1	Do you act as a custodian for health savings accounts?	Yes [] No [X]
3.2	If yes, please provide the amount of custodial funds held as of the reporting date	\$
3.3	Do you act as an administrator for health savings accounts?	Yes [] No [X]

3.4 If yes, please provide the balance of the funds administered as of the reporting date ______\$

SCHEDULE S - CEDED REINSURANCE

			S	Showing All New R	<u>einsurance Treati</u> e	es - Curr	ent Year to	o Date		
1	2	3	4		5		6	7	8	9
				• • •						Effective
									Certified	Date of
NAIC						Ту	e of		Reinsurer	Certified
Company Code	ID	Effective			Dinick	y Rein			Rating	Reinsurer
Code	Number	Date	Name of Reinsurer		Jusdich	C	ed	Type of Reinsurer	(1 through 6)	Rating

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS Current Year To Date - Allocated by States and Territories Direct Bus Life Contracts Accident and Health Insurance Premiums, Including Policy, Membership Total Deposit-Type Contracts Active Life Insurance Annuity Other Columns States, Etc and Other Fees Considerations ..112.526 Alabama AL .112.526 Alaska .8,520 3. Arizona ΑZ 451.122 451, 122 4. AR 32.571 .32.571 Arkansas 2,223,437 ,223,437 California 6. Colorado CO 384.777 384.777 330.054 330.054 Connecticut CT Delaware 40,894 40,894 9 District of Columbia DC .65,036 .65.036 10. Florida FL 1.217.797 1.217.797 GΑ .370,674 370,674 Georgia 11. 12. Hawaii н 105 138 105 138 13. Idaho. ID .31.894 .31.894 Illinois 743,288 743,288 14. IL 15 Indiana INI 339.472 339,472 900 16. lowa. IΑ .303.437 304 337 17. KS 203,282 203,282 Kansas 18. Kentucky ΚY 161,345 .6,000 167.345 19. Louisiana LA 165 577 165 577 ME .97,364 20. Maine. .97,364 21. MD 610,312 .630 610,942 Maryland 22 Massachusetts MA 458 721 458 721 MI 1,057,717 .2,700 1,060,417 23. Michigan . MN 252,699 24 252,699 25. Mississippi MS 112 029 112 029 МО 26. Missouri. .288.970 288.970 МТ .165,543 28. Nebraska NE 269 336 900 270 236 NV 150.670 150.670 29. Nevada. New Hampshire NH New Jersey 31. NJ .814.780 814.780 32. New Mexico NM .41.268 .41.268 NY .80,964 80.964 34. North Carolina NC 588.958 588.958 35. North Dakota ND ..2.928 ..2.928 ОН 629,621 629,621 37. Oklahoma ΟK 434,009 434.009 OR 38. Oregon. .207.179 207.179 Pennsylvania 39. РΑ 1,000,068 3,500 1,003,568 40. Rhode Island RI 95.450 95 450 41. South Carolina SC 363.049 363.049 South Dakota 42. SD 23,762 .23,762 43. Tennessee ΤN 333,458 333.458 44. Texas. TX 1.604.243 1.604.243 45. UT 172,204 172,204 Utah .. 46. VT 53,000 600 53.600 810 045 47. Virginia VA 810 045 48. Washington WA .376,345 376,345 49. West Virginia wv .89,892 .89,892 50. Wisconsin WΙ 198 487 198 487 WY .15,731 51. Wyoming .15,731 52. American Samoa AS 53. Guam GU N Puerto Rico PR 54. N. 55. U.S. Virgin Islands ۷I 56 Northern Mariana Islands MP N CAN 57. Canada. 58. Aggregate Other Aliens .. .89,407 59. Subtotal 18,865,881 15.230 .18,881,111 90. Reporting entity contributions for employee benefits XXX 91. Dividends or refunds applied to purchase paid-up additions and annuities 92. Dividends or refunds applied to shorten endowment or premium paying period.... Premium or annuity considerations waived under disability or other contract provisions..... 93. XXX 163,472 163,472 94. Aggregate or other amounts not allocable by State XXX XXX 15,230 Totals (Direct Business)... 19,029,353 19,044,583 95. Plus Reinsurance Assume XXX 97 Totals (All Business) XXX 19.029.353 15.230 19.044.583 Less Reinsurance Ceded XXX 9,370,370 9,370,370 98. Totals (All Business) less Reinsurance Ceded 15,230 99. XXX 9,658,983 9,674,213 **DETAILS OF WRITE-INS** ZZZ Other Alien 58001. XXX 89.407 89.407

89,407

XXX

XXX

XXX

XXX

XXX

XXX

XXX

Summary of remaining write-ins for Line 58 from

Summary of remaining write-ins for Line 94 from

Totals (Lines 9401 through 9403 plus 9498)(Line

Totals (Lines 58001 through 58003 plus

58002.

58003.

58998.

58999.

9401

9402.

9403.

9498.

9499.

overflow page.

overflow page

94 above)

58998)(Line 58 above)

89,407

⁽L) Licensed or Chartered - Licensed Insurance Carrier or Domiciled RRG; (R) Registered - Non-domiciled RRGs; (Q) Qualified - Qualified or Accredited Reinsurer; (E) Eligible - Reporting Entities eligible or approved to write Surplus Lines in the state; (N) None of the above - Not allowed to write business in the state.

⁽a) Insert the number of L responses except for Canada and Other Alien.

PART 1 – ORGANIZATIONAL CHART

04-1590850

Massachusetts

	Federal Tax ID	NAIC Co Code	State of Domicile
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Mezzanine Investor, LLC	06-1041383	, , , , , ,	Delaware
CML Mezzanine Investor L. LLC	06-1041383		Delaware
CML Mezzanine Investor III, LLC	06-1041383		Delaware
CML Re Finance LLC	06-1041383		Delaware
CML Special Situations Investor LLC	None		Delaware
MML Mezzanine Investor L, LLC	04-1590850		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timber Sales, Inc.	20-5305426		New York
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
WP-SC, LLC*	26-4441097		Delaware
MSP-SC, LLC	04-1590850		Delaware
Country Club Office Plaza LLC*	27-1435692		Delaware
Fern Street LLC	37-1732913		Delaware
MassMutual Retirement Services, LLC	04-1590850		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Mezzanine Investor, LLC	04-1590850		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		Connecticut
MMC Equipment Finance LLC	04-1590850		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2009-A	27-1379258		Delaware
MMAF Equipment Finance LLC 2011-A	45-2589019		Delaware
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
Pioneers Gate LLC	45-2738137		Delaware
MSC Holding Company, LLC	45-4376777		Delaware
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
MassMutual Holding LLC	04-2854319		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
MassMutual Ventures LLC	47-1296410		Delaware
MM Rothesay Holdco US LLC	04-1590850		Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

MML Investors Services, LLC

	Federal Tax ID	NAIC Co Code	State of Domicile
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLISI Financial Alliances, LLC	41-2011634		Delaware
MassMutual International LLC	04-3313782		Delaware
MassMutual Asia Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Asia Investors Ltd.	None		Hong Kong, Special Administrative Region of China
MassMutual Guardian Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Insurance Consultants Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Services Limited	None		Hong Kong, Special Administrative Region of China
MassMutual Trustees Limited	None		Hong Kong, Special Administrative Region of China
Protective Capital (International) Limited	98-0610331		Hong Kong, Special Administrative Region of China
MassMutual Life Insurance Company	None		Japan
MassMutual Internacional (Chile) SpA	98-1033127		Chile
MM Asset Management Holding LLC	45-4000072		Delaware
Babson Capital Management LLC	51-0504477		Delaware
Babson Capital Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
Babson Capital Securities LLC	04-3238351		Delaware
Babson Capital Guernsey Limited	98-0437588		Guernsey
Babson Capital Management (UK) Limited	98-0432153		United Kingdom
Babson GPC GP S.à.r.l.	None		Luxembourg
Almack Mezzanine GP III Limited	None		United Kingdom
Almack Holding Partnership GP Limited	None		United Kingdom
Almack Mezzanine Fund Limited	None		United Kingdom
Almack Mezzanine Fund II Limited	None		United Kingdom
Babson Capital Global Advisors Limited	98-1012393		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Babson European Direct Lending 1 GP LLP	None		United Kingdom
Babson Capital Management (Japan) KK	None 55-0878489		Japan
Cornerstone Real Estate Advisers LLC	04-3238351		Delaware California
Cornerstone Real Estate Advisers Inc.			
Cornerstone Real Estate Advisers Japan K.K.	None None		Japan Delaware
Cornerstone Real Estate UK Holdings Limited CREAE AIFM LLP	None		United Kingdom
CREAE AIFM LLP Cornerstone Real Estate Advisers (Continental Europe) Limited	98-0654401		United Kingdom United Kingdom
Cornerstone Real Estate Advisers (Continental Europe) Limited Cornerstone Real Estate Advisers Europe LLP	98-0654388		United Kingdom
Cornerstone Real Estate Advisers Europe Finance LLP	98-0654412		United Kingdom United Kingdom
Cornerstone Real Estate Advisers GmbH	98-1194368		Germany
Babson Capital Management (Australia) Holding Company Pty Ltd.	None		Australia
Babson Capital Management (Australia) Pty Ltd.	98-0457456		Australia
Baoson Capitai istanagement (Austrana) i ty Etu.	70-0437430		Austrana

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID	NAIC Co Code	State of Domicile
Babson Capital Cornerstone Asia Limited	None		Hong Kong, Special Administrative Region of China
Wood Creek Capital Management LLC	04-1590850		Delaware
Wood Creek Index Company, LLC	26-3115362		Delaware
Alchemy Copyrights, LLC.	47-2642354		Delaware
Milestone Acquisition Holding, LLC.	47-3055009		Delaware
Red Lake Ventures, LLC	46-5460309		Delaware
Solar Acquisition Holding, LLC	None		Delaware
Sweet Tree Holdings 1, LLC	46-3123110		Delaware
Tamiami Citrus, LLC	None		Delaware
Teaktree Acquisition, LLC	None		Delaware
U.S. Buyer Broadcasting, LLC	47-1855920		Delaware
U.S. WIG Holdings, LP	46-1500495		Delaware
U.S. Pharmaceuticals Holdings II, LLC	47-5436800		Delaware
VGS Acquisition Holding, LLC	None		Delaware
WC Aircraft Holdings US II, LLC	46-3378584		Delaware
Wood Creek Aircraft Holding I, LP	None		Cayman Islands
Babson Capital Floating Rate Income Fund Management, LLC	04-1590850		Delaware
Babson Capital Core Fixed Income Management LLC	27-3523916		Delaware
Babson Capital Total Return Management LLC	27-3524203		Delaware
Babson CLO Investment Partners GP, LLC	None		Delaware
Babson Global Loan Feeder Management, LLC	None		Delaware
Babson TERO Management LLC	None		Delaware
Babson Investment Grade CLO Debt Management LLC	None		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
Great Lakes III GP, LLC	04-1590850		Delaware
Loan Strategies Management LLC	04-1590850		Delaware
Mezzco LLC	04-1590850		Delaware
Mezzco II LLC	02-0767001		Delaware
Mezzco III LLC	41-2280126		Delaware
Mezzco IV LLC	80-0920285		Delaware
Mezzco Australia LLC	90-0666326		Delaware
Mezzco Australia II LLC	None		Delaware
SDCOS Management LLC	04-1590850		Delaware
Somerset Special Opportunities Management LLC	04-1590850		Delaware
Oppenheimer Acquisition Corp.	84-1149206		Delaware
OppenheimerFunds, Inc.	13-2527171		Colorado
OppenheimerFunds Distributor, Inc.	13-2953455		New York
Oppenheimer Real Asset Management, Inc.	84-1106295		Delaware
OFI Global Institutional, Inc.	13-4160541		New York

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID	NAIC Co Code	State of Domicile
OFI Global Trust Company	13-3459790		New York
HarbourView Asset Management Corporation	22-2697140		New York
Trinity Investment Management Corporation	25-1951632		Pennsylvania
OFI SteelPath, Inc.	84-1128397		Delaware
Shareholder Services, Inc.	84-1066811		Colorado
VTL Associates, LLC	None		Pennsylvania
Index Management Solutions, LLC	None		Pennsylvania
OFI Global Asset Management, Inc.	84-0765063		Delaware
OFI Private Investments Inc.	91-2036414		New York
Tremont Group Holdings, Inc.	62-1210532		New York
Tremont Partners, LLC	06-1121864		Connecticut
Tremont GP, LLC	20-8215352		Delaware
Settlement Agent LLC	90-0874510		Delaware
Tremont (Bermuda) Limited	None		Bermuda
MassMutual Baring Holding LLC	04-1590850		Delaware
Baring North America LLC	98-0241935		Massachusetts
MassMutual Holdings (Bermuda) Limited	None		Bermuda
Baring Asset Management Limited	98-0241935		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring International Investment Management Holdings	98-0457587		United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576		United Kingdom
Baring Asset Management GmbH	98-0465031		Germany
Baring Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None		Korea
Baring Asset Management (Japan) Limited	98-0236449		Japan
Baring Asset Management (Australia) Pty Limited	98-0457456		Australia
Baring International Fund Managers (Ireland) Limited	98-0524272		Ireland Switzerland
Baring Asset Management Switzerland Sårl	None 98-0457707		
Baring SICE (Taiwan) Limited	98-0457707 98-0497550		Taiwan ROC
Baring France SAS Baring Fund Managers Limited	98-0457586		France United Kingdom
Baring Pension Trustees Limited	98-0457574		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
First Mercantile Trust Company	62-0951563		Tennessee
Haven Life Insurance Agency, LLC	46-2252944		Delaware
MML Management Corporation	04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

Federal Tax ID NAIC Co Code Sta	ate of Domicile
Society of Grownups, LLC 47-1466022 Ma	assachusetts
	elaware
	elaware
	elaware
	elaware
Other Affiliates & Funds:	Jaware
	elaware
	elaware
	elaware
r	elaware
	elaware
	elaware
	exembourg
	exembourg
The state of the s	elaware
	elaware
	elaware
**************************************	elaware
	elaware
	yman Islands
JFIN Revolver CLO 2014 Ltd. None Ca	yman Islands
	yman Islands
JFIN Revolver CLO 2015-II Ltd. None Ca	yman Islands
MML Private Equity Fund Investor LLC 04-1590850 Del	elaware
	elaware
100 w. 3 rd Street LLC 04-1590850 Dei	elaware
300 South Tryon Hotel LLC 04-1590850 Dei	elaware
300 South Tryon LLC 04-1590850 Dei	elaware
	elaware
Alexandria Towers Investors LLC 16-1720387 Dei	elaware
	nited Kingdom
	nited Kingdom
Almack Mezzanine Fund III LP* None Un	nited Kingdom

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID	NAIC Co Code	State of Domicile
Babson Capital Emerging Markets Corporate Bond Fund	None		Ireland
Babson Capital Emerging Markets Local Debt Fund	None		Ireland
Babson Capital European High Yield Bond Fund	None		Ireland
Babson Capital Global Special Situations Credit Fund 1	None		Ireland
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Babson Capital US High Yield Bond Fund*	None		Ireland
Babson CLO Ltd. 2007-I	None		Cayman Islands
Babson CLO Ltd. 2012-I	None		Cayman Islands
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-I	None		Cayman Islands
Babson CLO Ltd. 2013-II	98-1128827		Cayman Islands
Babson CLO Ltd. 2014-I	None		Cayman Islands
Babson CLO Ltd. 2014-II	None		Cayman Islands
Babson CLO Ltd. 2014-III	None		Cayman Islands
Babson CLO Ltd. 2015-I	None		Cayman Islands
Babson CLO Ltd. 2015-II	None		Cayman Islands
Babson CLO Ltd. 2016-I	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2014-II BV	None		Netherlands
Babson Euro CLO 2015-I BV	None		Netherlands
Babson Euro CLO 2016-I BV	None		Netherlands
Babson Capital Global Credit Fund (Lux) SCSp, SIACV-SIF	None		Luxembourg
Babson Investment Grade CLO Debt Fund LP	47-3971963		Delaware
Babson Mezzanine Realty Investors II	24-1446970		Delaware
Baring Emerging Market Corp Debt Fund	None		Ireland
Baring Focused EAFE Equity Fund	11-3789446		Delaware
Baring Global Dynamic Asset Allocation Fund	30-0607379		Delaware
Baring International Small Cap Equity Fund	26-4142796		Delaware
Benton Street Partners I, L.P.*	98-0536233		Cayman Islands
Benton Street Partners II, L.P.*	98-0536199		Cayman Islands
Braemar Energy Ventures I, L.P. *	None		Delaware
Connecticut Valley Structured Credit CDO II, Ltd.	None		Cayman Islands
Connecticut Valley Structured Credit CDO III, Ltd.	None		Cayman Islands
Cambridge Hotel, LLC	06-1614196		Delaware
Cheyenne Mountain Resort LLC	04-1590850		Delaware
Cornerstone Core Fund SCSCp	None		Luxembourg
Cornerstone Core Mortgage Venture I LP	27-1701622		Delaware
Cornerstone Enhanced Mortgage Fund I LP	45-3751572		Delaware
Cornerstone Global Real Estate LP*	20-8730751		Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

	Federal Tax ID	NAIC Co Code	State of Domicile
Cornerstone High Yield Venture LP	36-4770946		Delaware
Cornerstone Hotel Income and Equity Fund II LP	26-1828760		Delaware
Cornerstone/LAZ Parking Fund LP	46-5437441		Delaware
Cornerstone Partners IV LLC	71-0908077		Delaware
Cornerstone Patriot Fund LP	20-5578089		Delaware
Cornerstone Real Estate Fund VIII LP	27-0547156		Delaware
Cornerstone Real Estate Fund X LP	46-5432619		Delaware
Duchess VI CLO B.V.	None		United Kingdom
Duchess VII CLO B.V.	None		United Kingdom
E-Wise Land Venture LLC	20-3887968		Delaware
Gateway Mezzanine Partners I, L.P.*	80-0691253		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
Kazwell Realty Partners LLC	20-3887968		Delaware
King Alexander LLC	45-3754085		Delaware
Marco Hotel LLC	46-4255307		Delaware
MMI/BDI Riverside Mt. Vernon LLC	26-2704765		Delaware
MML O'Hare Hotel LLC	26-3799762		Delaware
Oakley Grove Development LLC	20-3887968		Delaware
Old Pasco Properties LLC	20-3887968		Delaware
Reston Arboretum LLC	75-2901061		Delaware
Riva Portland LLC	30-0713071		Delaware
Rockall CLO B.V.	None		United Kingdom
Rockville Town Center LLC	54-2055778		Virginia
Sapphire Valley CDO I, Ltd.	None		Cayman Islands
SDCOS L.P.	74-3182902		Delaware
Seattle 1415 Hotel Owner LLC	46-5491311		Delaware
Sedona TFMP Land LLC	04-1590850		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
South Myrtle Monrovia MM LLC	04-1590850		Delaware
South Pasco Properties LLC	20-3887968		Delaware
Tower Square Capital Partners, L.P.*	04-3722906		Delaware
Tower Square Capital Partners II, L.P.*	30-0336246		Delaware
Tower Square Capital Partners II-A, L.P.*	32-0160190		Delaware
Tower Square Capital Partners III, L.P.*	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129		Delaware
Tower Square Capital Partners IV-A, L.P.	80-0920367		Delaware
West 46 th Street Hotel LLC	05-1590850		Delaware
Whately CDO, Ltd.	None		Cayman Islands
Wood Creek Multi Asset Fund, L.P.	20-4981369		Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

PART 1 – ORGANIZATIONAL CHART

	Federal Tax ID	NAIC Co Code	State of Domicile
Babson Affiliates & Funds:	rederat ran in	THIE CO COUC	State of Bonnene
Babson Capital Emerging Markets Debt Blended Total Return Fund	None		Ireland
Babson Capital Emerging Markets Debt Short Duration Fund	None		Ireland
Babson Capital Emerging Markets Sovereign Debt Fund	None		Ireland
Babson Capital Floating Rate Income Fund, L.P.	27-3330830		Delaware
Babson Capital Global Investment Grade Corporate Plus Fund	None		Ireland
Babson Capital Loan Strategies Master Fund LP	None		Cayman Islands
Babson Capital Senior CLO Debt Fund	None		Ireland
Babson Emerging Markets Debt Blended Total Return Fund	47-3758432		Massachusetts
Babson Emerging Markets Local Currency Debt Fund	47-3774453		Massachusetts
Babson Global High Yield Bond Fund	47-3790192		Massachusetts
Babson Global Income Opportunities Credit Fund	46-3119764		Massachusetts
Babson Total Return Bond Fund	47-3734770		Massachusetts
Babson US High Yield Fund	47-3801860		Massachusetts
Gateway Mezzanine Partners I Trust	None		Australia
Great Lakes II LLC*	71-1018134		Delaware
Great Lakes LLC*	56-2505390		Delaware
Intermodal Holding II LLC	46-2344300		Delaware
Somerset Special Opportunities Master Fund LP	None		Cayman Islands
Wood Creek Venture Fund LLC	04-1590850		Delaware
Baring Affiliates & Funds:			
Baring Greater China Equity Fund	None		Hong Kong
Cornerstone Affiliates & Funds:			8 8
12-18 West 55th Street Predevelopment, LLC*	20-2548283		Delaware
50 Liberty LLC*	36-4823011		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
2 Harbor Shore Member LLC*	46-4803557		Delaware
21 West 86 LLC*	45-5257904		Delaware
AT Mid-Atlantic Office Portfolio LLC*	45-2779931		Delaware
CHC/RFP VI Core LLC	04-1590850		Delaware
Cornerstone Fort Pierce Development LLC*	56-2630592		Delaware
Cornerstone Permanent Mortgage Fund	45-2632610		Delaware
Cornerstone Permanent Mortgage Fund II	61-1750537		Massachusetts
CREA 330 Third LLC*	46-5001122		Delaware
CREA FMF Nashville LLC	46-4367364		Delaware
CREA/LYON West Gateway, LLC*	26-2399532		Delaware
CREA Madison Member LLC	81-0890084		Delaware
CREA/PPC Venture LLC*	20-0348173		Delaware
Fallon Cornerstone One MPD LLC*	26-1611591		Delaware
Farringdon London Holdings LLC*	46-3880526		Delaware
E D' D 1 ALIGH	20. 22.47001		D 1

20-3347091

Delaware

Fan Pier Development LLC*

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

PART 1 – ORGANIZATIONAL CHART

Federal Tax ID NAIC Co Code State of Domicile

Infinity SCD Ltd.	None	United Kingdom
Johnston Groves LLC	20-4819358	Delaware
MMI/Hines Harrison LLC*	46-5347643	Delaware
MM Woodfield Martingale LLC*	46-4077059	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware
Sawgrass Village Shopping Center LLC*	27-2977720	Delaware
Ten Fan Pier Boulevard LLC*	None	Delaware
Twenty Two Liberty LLC*	35-2484550	Massachusetts
UK LÍW Manager LLC	45-4606547	Delaware
UK LIW Member LLC	45-4606547	Delaware
Washington Gateway Apartments Venture LLC*	45-5401109	Delaware
Waterford Development Associates	20-2970495	Delaware
Waterloo London Holdings LLC	47-1993493	Delaware
WeHo Domain LLC*	46-3122029	Delaware
Willowwod Lakeside Master LLC	81-1552222	Delaware
Ygnatio Valley Funding	20-5481477	Delaware
MassMutual Premier Funds:		
MassMutual Barings Dynamic Allocation Fund	45-3168892	Massachusetts
MassMutual Premier Focused International Fund	02-0754273	Massachusetts
MassMutual Premier Main Street Fund	51-0529328	Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251	Massachusetts
MassMutual Premier Value Fund	04-3277550	Massachusetts
MassMutual Select Funds:		
MassMutual Select Diversified International Fund	14-1980900	Massachusetts
MassMutual Select Diversified Value Fund	01-0821120	Massachusetts
MassMutual Select Fundamental Growth Fund	04-3512593	Massachusetts
MassMutual Select Large Cap Value Fund	04-3513019	Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935	Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954	Massachusetts
MassMutual Select Small Company Value Fund	04-3584140	Massachusetts
MML Series Investment Funds:		
MML Series International Equity Fund	46-4257056	Massachusetts
MML Series Investment Funds II:		
MML Series II Asset Momentum Fund	47-3517233	Massachusetts
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
MML Series II Equity Rotation Fund	47-3544629	Massachusetts
MML Series II Special Situations Fund	47-3559064	Massachusetts
MassMutual RetireSMART Funds:		
MassMutual RetireSMART 2055 Fund	46-3289207	Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235	Massachusetts
MassMutual RetireSMART Conservative Fund	45-1618155	Massachusetts

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

		Federal Tax ID	NAIC Co Code	State of Domicile
	MassMutual RetireSMART Growth Fund	45-1618222		Massachusetts
	MassMutual RetireSMART Moderate Fund	45-1618262		Massachusetts
	MassMutual RetireSMART Moderate Growth Fund	45-1618046		Massachusetts
Oppenh	eimer Funds:			
	Oppenheimer Global High Yield Fund	45-3417590		Delaware
	Oppenheimer Global Multi-Asset Growth Fund	47-3676235		Delaware
	Oppenheimer Global Multi-Asset Income Fund	47-1714929		Delaware
	Oppenheimer Global Real Estate Fund*	46-1604428		Delaware
	Oppenheimer Small Cap Value Fund	47-4835759		Delaware
	Oppenheimer SteelPath Panoramic Fund	47-3987967		Delaware

^{*}This entity is owned by another or multiple entities in the group. Please refer to Sch Y Part 1A for the ownership and percentage information.

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

				FAI	או ור	A - DE I AIL	. OF INSURANC		ノレレニ	NG COMPANY S	O I O I E IVI			
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1	_					·	-				Type	lf		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
							Massachusetts Mutual Life Insurance			Massachusetts Mutual Life Insurance				
0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388	0000225602		Company (MMLIC)	MA	UIP	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0435	CM Life Ins Co	93432	. 06-1041383 .				C.M. Life Insurance Company	CT	UDP	Company	Ownership	100.000		
0435	MML Baystate Life Ins Co	70416	43-0581430 .		. 0000924777		MML Bay State Life Insurance Company	CT	RE	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			. 06-1041383				CML Mezzanine Investor, LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			. 06-1041383 .				CML Mezzanine Investor L, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			06-1041383 .				CML Mezzanine Investor III, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			. 06-1041383		.		CML Re Finance LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
0000			l		.		CML Special Situations Investor LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				MML Mezzanine Investor L, LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000							MML Special Situations Investor LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Company	Ownership	95.000	MMLIC	
0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.000	MMLIC	
0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	Wood Creek Capital Management LLC	Management		. MMLIC	
0000							Lyme Adirondack Forest Company, LLC	DE	NI A	Timberland Forest Holding LLC	Ownership	100.000	MMLIC	
0000			. 20-5305426 .				Lyme Adirondack Timber Sales, Inc	NY	NI A	Timberland Forest Holding LLC	Ownership	100.000	MMLIC	
0000							Lyme Adirondack Timberlands I, LLC	DE	NI A	Timberland Forest Holding LLC	Ownership	100.000	MMLIC	
0000							Lyme Adirondack Timberlands II, LLC	DE	NIA	Timberland Forest Holding LLC	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			26-4441097				WP-SC, LLC	DE	NI A	Company	Ownership	81.400	MMLIC	
0000			26-4441097 .				WP-SC, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	18.600		
0000			04 4500050				HOD OO III O	DE		Massachusetts Mutual Life Insurance		100 000	188 10	
0000			. 04-1590850 .				MSP-SC, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			07 4405000				Overton Olisto Office Diversitio	DE	ALL A	Massachusetts Mutual Life Insurance	0	00.400	MMLIC	
0000			27-1435692				Country Club Office Plaza LLC	DE DE	NIA NIA	Company	Ownership	88. 100		
			27-1435692		-		Country Club Office Plaza LLC	IDE	NI A	C.M. Life Insurance Company Massachusetts Mutual Life Insurance	Ownership	11.900	. MMLIC	
0000			27 1720010				Form Street II C	DE	MIA		Ownership	100 000	MAIL LC	
0000			37-1732913		-		Fern Street LLC	UE	NIA	Company	Ownership	100.000	MMLIC	
0000			04-1590850				MassMutual Retirement Services, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			. 04-1090000 .		-		massmutual Retirement Services, LLC	J	NIA	Massachusetts Mutual Life Insurance	Ownership	. 100.000		
0000		1	04-3356880		0000943903		MML Distributors LLC	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	99.000	MMLIC	
0000			04-3356880		0000943903		MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000	MMLIC	
0000			. 04-0000000		. 0000343803		MINNE DISTIBUTOLS FFO	A	NIM	Massachusetts Mutual Life Insurance	Owner Strip	1.000	INMILIO	
0000							MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000							THINK THYOSTHIGHT AUVISOIS, LLO			Massachusetts Mutual Life Insurance	Omici 3111p			
0000		1	04-1590850				MML Mezzanine Investor, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			. 07-1000000				mini mozzuillie ilivestoi, LLO			Massachusetts Mutual Life Insurance	Office 9111p		MINIE IV	
0000		1	46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
000			. 10 0200010 .				Time Strategie Distributors, LLO			Massachusetts Mutual Life Insurance				
0000			06-1563535	2881445	0001103653		The MassMutual Trust Company, FSB	CT	NIA	Company	Ownership.	100.000	MMLIC	
5500										Massachusetts Mutual Life Insurance				
0000		1	04-1590850				MMC Equipment Finance LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MMC Equipment Finance LLC	Ownership	99.600	MMLIC	
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400	MMLIC	

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

				PAF	11 I <i>A</i>	- DEIAIL	. OF INSURANCE	: П(ノレレロ	ING COMPANT 3	191EIVI			
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	_										Type	lf		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	,
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity `	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000			27-1379258 .				MMAF Equipment Finance LLC 2009-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MML IC	
0000			45-2589019 .				MMAF Equipment Finance LLC 2011-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC	
							MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 45-2738137 .				Pioneers Gate LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-4376777 .				MSC Holding Company, LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			. 04-3341767 .				MassMutual Holding MSC, Inc.	MA	NIA	MSC Holding Company, LLC	Ownership	100.000	MMLIC	
		1								Massachusetts Mutual Life Insurance				
0000			. 04-2854319 .	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			. 06-1597528 .				MassMutual Assignment Company	NC	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			. 04-1590850 .		0001399869		MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			. 47-1296410 .				MassMutual Ventures LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			. 04-1590850 .				MM Rothesay Holdco US LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			. 04-1590850 .		0000701059		MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000		
0000			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC	
0000			41-2011634		0001456663		MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership	51.000	MMLIC	
0000			. 04-3313782 .				MassMutual International LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000							MassMutual Asia Limited	HKG	IA	MassMutual International LLC	Ownership	100.000	MMLIC	
0000							MassMutual Asia Investors Ltd.	HKG	NIA NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC	
0000							MassMutual Guardian Limited	HKG	NIA NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC	
0000							MassMutual Services Limited	HKG	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC	
0000							MassMutual Trustees Limited	HKG	NIA	MassMutual Asia Limited	Ownership	80.000	MMLIC	
0000							Protective Capital (International) Limited	nru	NIA		Owner Strip	00.000	WWLTC	
0000			. 98-0610331 .				Protective Capital (International) Limited	HKG	NIA	MassMutual Asia Limited	Ownership	100.000	MMLIC	
0000			. 30-0010331 .				MassMutual Life Insurance Company	JPN	IA	MassMutual International LLC	Ownership	100.000	MMLIC	
0000			98-1033127				MassMutual Internacional (Chile) SpA	CHL	NIA	MassMutual International LLC	Ownership.	100.000	MMLIC	
0000			45-4000072				MM Asset Management Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC	
0000			51-0504477		0000009015		Babson Capital Management LLC	DE	NIA	MassMutual Asset Management Holding LLC	Ownership	.100.000	MMLIC	
0000			80-0875475				Babson Capital Finance LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000							BCF Europe Funding Limited	JRL	NIA	Babson Capital Finance LLC	Ownership	_100.000	MMLIC	
0000]				BCF Senior Funding LLC	DE	NIA	Babson Capital Finance LLC	Ownership	100.000	MMLIC	
0000		l	04-3238351		0000930012		Babson Capital Securities LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			98-0437588				Babson Capital Guernsey Limited	GGY	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			98-0432153				Babson Capital Mangement (UK) Limited	GBR	NIA	Babson Capital Guernsey Limited	Ownership	100.000	MMLIC	
0000							Babson GPC GP S.à.r.I .	_LUX	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							Almack Mezzanine GP III Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							Almack Holding Partnership GP Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							Almack Mezzanine Fund Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	_100.000	MMLIC	
0000							Almack Mezzanine Fund II Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	_100.000	MMLIC	
0000			98-1012393				Babson Capital Global Advisors Limited	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							BCGSS 2 GP LLP	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							Babson European Direct Lending 1 GP LLP	GBR	NIA	Babson Capital Europe Limited	Ownership	100.000	MMLIC	
0000							Babson Capital Management (Japan) KK	JPN	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			. 55-0878489 .	3456895	0001379495		Cornerstone Real Estate Advisers LLC	DE	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			. 04-3238351 .	3456895	0001011148		Cornerstone Real Estate Advisers Inc	CA	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
							Cornerstone Real Estate Advisers Japan							
0000							K.K	JPN	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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						Name of Securities			Relation	-	Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
							Cornerstone Real Estate UK Holdings							
0000							Limited	DE	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MML IC	
0000			-				CREAE AIFM LLP	GBR	NIA	Cornerstone Real Estate Advisers LLC	Ownership	100.000	MMLIC	
0000			00 0054404				Cornerstone Real Estate Advisers	ODD		Cornerstone Real Estate UK Holdings		400 000	188.10	
0000			. 98-0654401 .				(Continental Europe) Limited	GBR	NIA	Limited	Ownership	100.000	MMLIC	
0000			98-0654388				Cornerstone Real Estate Advisers Europe	GBR	NIA	Cornerstone Real Estate UK Holdings Limited	O-manah i-	100.000	MMLIC	
0000			. 98-0004388 .				Cornerstone Real Estate Advisers Europe	BH	NIA	Cornerstone Real Estate UK Holdings	Ownership	100.000	MMLIC	
0000			98-0654412				Finance IIP	GBR	NIA	Limited	Ownership	100.000		
0000		-	. 30-0034412 .				I IIIalioe LLF	חחמייי	N I M	Cornerstone Real Estate UK Holdings	Owner 2011 P		WITE IV	
0000			98-1194368				Cornerstone Real Estate Advisers GmbH	DEU	NIA	Limited	Ownership	100.000	MMLIC	
0000							Babson Capital Management (Australia)		NI /\	Limittou	omior sirry			
0000							Holding Company Pty Ltd.	AUS	NIA	Babson Capital Management LLC	Ownership.	100.000		
							Babson Capital Management (Australia) Pty			Babson Capital Australia Holding Company				
0000			98-0457456				Ltd.	AUS	NIA	Pty Ltd.	Ownership	100.000	MMLIC	
0000							Babson Capital Cornerstone Asia Limited	HKG	NIA	Babson Capital Management LLC	Ownership	100.000	MMLIC	
0000			04-1590850				Wood Creek Capital Management LLC	DE	NIA	Babson Capital Management LLC	Ownership	_100.000 _	MMLIC	
0000			26-3115362 .				Wood Creek Index Company, LLC	DE	NIA	Wood Creek Capital Management LLC	Ownership	100.000		
0000			47-2642354				Alchemy Copyrights, LLC.	DE	NIA	MassMutual Holding LLC	Ownership	15.200	MMLIC	
0000			47-2642354 .				Alchemy Copyrights, LLC.	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
0000			. 47-3055009 .				Milestone Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership	18.300	MMLIC	
0000			47-3055009 .				Milestone Acquisition Holding, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			46-5460309 .				Red Lake Ventures, LLC	DE	NIA	Company	Ownership	31.500	MMLIC	
0000			46-5460309 .				Red Lake Ventures, LLC	DE	NI A	Wood Creek Capital Management LLC	Influence		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 46-3123110 .				Sweet Tree Holdings 1, LLC	DE	NIA	Company	Ownership	16. 100	MMLIC	
0000			. 46-3123110 .				Sweet Tree Holdings 1, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
0000							Torrigoria Olikowa III O	DE	ALLA	Massachusetts Mutual Life Insurance	0	15.700	MMLIC	
0000							Tamiami Citurus, LLC	DE	NIA NIA	Company	Ownership	. 14.700	MMLIC	
0000							Teaktree Acquisition, LLC	DE	NIA NIA	Wood Creek Capital Management LLC	Influence	14.700	MMLIC	
0000							TEARTIEE AUGUISTITION, LLU	^{UE}	NI M	Massachusetts Mutual Life Insurance	IIII I UCIICC		WITHLE TO	
0000					[U.S. Buyer Broadcasting, LLC	DE	NIA	Company	Ownership	12.700	MMLIC	
0000			1				U.S. Buyer Broadcasting, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence	12.700	MMLIC	
0000			46-1500495 .				U.S. WIG Holdings, LP	DE	NIA	MassMutual Holding LLC	Ownership.	11.700	MMLIC	
0000			46-1500495				U.S. WIG Holdings, LP	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
							,	1		Massachusetts Mutual Life Insurance			-	
0000			20-2970495 .				US Pharmaceutical Holdings II, LLC	DE	NIA	Company	Ownership	32.600	MMLIC	
0000			20-2970495				US Pharmaceutical Holdings II, LLC	DE	NIA	Wood Creek Capital Management LLC	Influence		MMLIC	
							-			Massachusetts Mutual Life Insurance				
0000							Solar Acquisition Holding, LLC	DE	NIA	Company	Ownership	39.200	MMLIC	
0000							Solar Acquisition Holding, LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MMLIC	
0000							VGS Acquisition Holding, LLC	DE	NI A	MassMutual Holding LLC	Ownership	42.600	MMLIC	
0000							VGS Acquisition Holding, LLC	DE	NI A	Wood Creek Capital Management LLC	Management		MMLIC	
								l		Massachusetts Mutual Life Insurance				
0000			. 46-3378584 .				WC Aircraft Holdings US II, LLC	DE	NIA	Company	Ownership	17.900	MMLIC	
0000			46-3378584 .				WC Aircraft Holdings US II, LLC	DE	NI A	Wood Creek Capital Management LLC	Management		MMLIC	
0000					[0.77		Massachusetts Mutual Life Insurance		40 100	144.10	
0000							Wood Creek Aircraft Holding I, LP	CYM	NIA	Company	Ownership	12.100		
0000							Wood Creek Aircraft Holding I, LP	CYM	NIA	Wood Creek Capital Management LLC	Management		MMLIC	

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0000 13-2953455 0000276541 0penheimerFunds Distributor, Inc. NY NIA 0penheimerFunds, Inc. 0wnership 100.000 MMLIC 0penheimerFunds, Inc. 0wnership 100.000 MMLIC 0penheimerFunds, Inc. 0penheimerFunds, Inc	
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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
							Baring International Investment Management	i .						
0000			. 98-0457587 .				Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC	
0000			00 0457570				Baring Asset Management UK Holdings	opp		Baring International Investment		400 000	188.10	
0000			. 98-0457576 .				Limited	GBR	NI A	Management Holdings	Ownership	100.000	MMLIC	
0000			00 0405004				Desire Assat Newscard Ochil	חבוו	ALLA	Baring Asset Management UK Holdings	0	100,000	188 10	
0000			98-0465031 .				Baring Asset Management GmbH Baring Asset Management (Asia) Holdings	DEU	NIA	Limited	Ownership	100.000	MMLIC	
0000			98-0524271				Limited	HKG	NILA	Baring Asset Management UK Holdings Limited	O	. 100.000	MMLIC	
0000			. 30-0024211 .		-		Baring International Fund Managers	п/.	NIA	Baring Asset Management (Asia) Holdings	Ownership	. 100.000		
0000		1	98-0457465		1		(Bermuda) Limited	BMU	NIA	Baring Asset Management (Asia) Holdings	Ownership	100.000	MMLIC	
0000		I	. 50-0437403 .		-		(Dermuua) Limiteu	DWIU	N I M	Baring Asset Management (Asia) Holdings	Owner 2011 P	. 100.000	WINIL I V	
0000		1	. 98-0457463 .		1		Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership	100.000		
0000			. 60416400 .				Baring Asset Management (Asia) Elimited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership.	100.000	MMLIC	
0000							Dai mg Asset management Korea Emilited			Baring Asset Management (Asia) Holdings	Owner strip		I WINE TO	
0000			98-0236449				Baring Asset Management (Japan) Limited	JPN	NIA	Limited	Ownership	100.000	MMLIC	
0000			00 0200110 :				Baring Asset Management (Australia) Pty			Baring Asset Management (Asia) Holdings	omici cirip			
0000			98-0457456				Limited	AUS	NIA	Limited	Ownership	100.000	MMLIC	
			1				Baring International Fund Managers			Baring Asset Management UK Holdings		-		
0000			. 98-0524272 .				(Ireland) Limited	JRL	NIA	Limited	Ownership	100.000		
										Baring Asset Management UK Holdings	,			
0000							Baring Asset Management Switzerland Sarl .	CHE	NIA	Limited	Ownership	100.000	MMLIC	
										Baring Asset Management UK Holdings				
0000			. 98-0457707 .				Baring SICE (Taiwan) Limited	TWN	NIA	Limited	Ownership	100.000	MMLIC	
										Baring Asset Management UK Holdings				
0000			98-0497550 .				Baring France SAS	FRA	NIA	Limited	Ownership	100.000		
0000			98-0457586 .				Baring Fund Managers Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	. MMLIC	
0000			. 98-0457574 .				Baring Pension Trustees Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC	
0000			. 98-0457578 .				Baring Investment Services Limited	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	- MMLIC	
0000			. 62-0951563 .	1160004	0001259664		First Mercantile Trust Company	TN	NI A	MassMutual Holding LLC	Ownership	100.000	. MMLIC	
0000			. 46-2252944 .				Haven Life Insurance Agency, LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	. MMLIC	
0000			04-2443240 .				MML Management Corporation	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
0000			. 04-2443240 .				MassMutual International Holding MSC. Inc.		NIA	Company	Owner Sn Tp	100.000	MMLIC	
0000			04-3548444				wasswutuar international norumg wsc, mc.		NIA	MML Management Corporation	Ownership	100.000	MMLIC	
0000			47-1466022				Society of Grownups, LLC	MA	NIA	MassMutual Holding LLC	Ownership.	100.000	MMLIC	
0000			1-1400022 .		-		occitity of diominups, LLO			Massachusetts Mutual Life Insurance	οπιοι στιτρ			
0000		1	. 04-1590850 .		1		MML Mezzanine Investor II, LLC	DE	NIA	Company	Ownership	100.000		
										Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				MML Mezzanine Investor III, LLC	DE	NIA	Company	Ownership.	100.000		
							,			Massachusetts Mutual Life Insurance		-		
0000			27-3576835 .				MassMutual External Benefits Group LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1			1		·			Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				MML Re Finance LLC	DE	NIA	Company	Ownership	100.000		
		1			1			1		Massachusetts Mutual Life Insurance				
0000			. 56-2574604 .				Invicta Advisors LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
		1			1					Massachusetts Mutual Life Insurance				
0000			27-0105644 .		-		Jefferies Finance LLC	DE	NIA	Company	Ownership	50.000	. MMLIC	1
0000					-		Apex Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	- MMLIC	
0000					-		JFIN Fund III LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000		
0000			-		-		JFIN Asset Management LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000		
0000					.		JFIN Co-Issuer Corporation	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	

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Group		Company	. ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000							JFIN Europe GP, S.a.r.I.	LUX	NI A	Jefferies Finance LLC	Ownership	100.000		
0000							Jefferies Finance Europe, SCSp	LUX	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							Jefferies Finance Business Credit LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN Business Credit Fund I LLC	DE	NIA NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN High Yield Investments LLC JFIN LC Fund LLC	DE	NIA	Jefferies Finance LLC Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN Revolver CLO Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN CLO 2007 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN CLO 2012 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000				1			JFIN CLO 2012 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN CLO 2014 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	70.000	MMLIC	
0000]			JFIN CLO 2014 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership.	30.000	MMLIC	
0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC	
0000							JFIN MM CLO 2014 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership.	100.000	MMLIC	
0000							JFIN CLO 2015 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	44.000	MMLIC	
0000							JFIN CLO 2015 Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership	56.000	MMLIC	
0000							JFIN CLO 2015-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	33.000		
0000							JFIN CLO 2015-II Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership	53.000	. MMLIC	
0000							JFIN Revolver CLO Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN Revolver CLO 2014 Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	
0000							JFIN Revolver CLO 2015 Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership	100.000		
0000							JFIN Revolver CLO 2015-II Ltd.	CYM	NIA	Jefferies Finance LLC	Ownership	100.000		
										Massachusetts Mutual Life Insurance				
0000			04-1590850		0000067160		MML Private Equity Fund Investor LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	MML Private Equity Fund Investor LLC	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				100 w. 3rd Street LLC	DE	NIA	Company	Ownership	100.000	MML1C	
0000			04 4500050				000 0 T II. 4 . I II. 0	DE	NIA	Massachusetts Mutual Life Insurance	0	100,000	MMLIC	
0000			. 04–1590850 .				300 South Tryon Hotel LLC	VE	NIA	Company	Ownership	100.000		
0000			04-1590850				300 South Tryon LLC	DE	NIA	Company	Ownership.	100.000	MMLIC	
0000			. 04-1390030 .				300 30util Tryon LLC		NI A	Massachusetts Mutual Life Insurance	Owner Sirrp			
0000			20-3887968				54 West Capital LLC	DE	NIA	Company	Ownership	. 100.000	MMLIC	
			20 0007300				04 Heat oup tur LLO			Massachusetts Mutual Life Insurance	owner strip.			
0000			16-1720387				Alexandria Towers Investors LLC	DE	NIA	Company	Ownership	. 100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000					l		Almack Mezzanine Fund LP	GBR	NIA	Company	Ownership	38.400	. MMLIC	
0000							Almack Mezzanine Fund LP	GBR	NIA	C.M. Life Insurance Company	Ownership.	4 . 300	MMLIC	
0000							Almack Mezzanine Fund LP	GBR	NIA	Babson Capital Europe Limited	Management		MMLIC	
										Massachusetts Mutual Life Insurance	-			
0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership	72.000	_ MMLIC	
0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Babson Capital Europe Limited	Management		MMLIC	
										Massachusetts Mutual Life Insurance				
0000							Almack Mezzanine Fund III LP	GBR	NIA	Company	Ownership	33.800	. MMLIC	
0000							Almack Mezzanine Fund III LP	GBR	NIA	C.M. Life Insurance Company	Ownership	3.800	. MMLIC	
0000							Almack Mezzanine Fund III LP	GBR	NIA	Babson Capital Europe Limited	Management		MMLIC	
							Babson Capital Emerging Markets Corporate			Massachusetts Mutual Life Insurance				
0000							Bond Fund	JRL	NIA	Company	Ownership	98.000	. MMLIC	
0000							Babson Capital Emerging Markets Corporate	ID:	ALL A	District On State Manager 1992	M		MII 10	
0000			.	.	I		Bond Fund	JRL	NIA	Babson Capital Management LLC	Management		MMLIC	

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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
							Babson Capital Emerging Markets Local Debt			Massachusetts Mutual Life Insurance				
0000							Fund	JRL	NI A	Company	Ownership	63.600	. MMLIC	
							Babson Capital Emerging Markets Local Debt							
0000							Fund	JRL	NIA	Babson Capital Management LLC	Management		MMLIC	
							Babson Capital European High Yield Bond			Massachusetts Mutual Life Insurance				
0000							Fund	JRL	NIA	Company	Ownership	48.700	. MMLIC	
0000							Babson Capital European High Yield Bond	LDI					MMLIC	
0000							Fund	JRL	NIA	Babson Capital Management LLC	Management		MMLIC	
0000							Babson Capital Global Special Situations	IRL	MILA	Massachusetts Mutual Life Insurance	O manufact	00.700	100	
0000		-					Credit Fund 1	JKL	NIA	Company	Ownership	98.700		
0000							Babson Capital Global Special Situations	LDI	ALL A	Debase Constal Management 110	Management		MMLIC	
0000							Credit Fund 1Babson Capital Global Special Situation	JRL	NIA	Babson Capital Management LLC	. Management		MML I C	
0000			98-1206017				Credit Fund 2	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	24 . 100	MMLIC	
0000			98-1200017 .				Babson Capital Global Special Situation	∪⊏	NIA	Company	_ ownership	24. 100		
0000			98-1206017				Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership	1.500	MMLIC	
0000			90-1200017				Babson Capital Global Special Situation	UE	NIA	C.M. Life insurance company	Owner Strip	1.500	. INMLIC	
0000			98-1206017				Credit Fund 2	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			90-1200017 .				Credit Fund 2	UE	NIA	Massachusetts Mutual Life Insurance	. management			
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Company	Ownership	78.700	MML1C	
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA	C.M. Life Insurance Company	Ownership	3.900	MMLIC	
0000			37-1506417				Babson Capital Loan Strategies Fund, L.P.	DE	NIA	Babson Capital Management LLC	Management	0.900	MMLIC	
0000			07 1000+17 .				Dabson ouprear Evan otrategres runa, E.r.			Massachusetts Mutual Life Insurance	management		WINE TO	
0000							Babson Capital US High Yield Bond Fund	JRL	NIA	Company	Ownership	55.700	MMLIC	
0000							Babson Capital US High Yield Bond Fund	JRL	NIA	Babson Capital Management LLC	Management		MMLIC	
0000							Babson CLO Ltd. 2007-1	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	4
0000							Babson CLO Ltd. 2012-I	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Babson CLO Ltd. 2012-II	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Babson CLO Ltd. 2013-I	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	7
0000			. 98-1128827				Babson CLO Ltd. 2013-II	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	8
0000							Babson CLO Ltd. 2014-I	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	2
0000							Babson CLO Ltd. 2014-II	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	9
0000							Babson CLO Ltd. 2014-III	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Babson CLO Ltd. 2015-I	CYM	NIA	Babson Capital Management LLC	. Influence	.	MMLIC	10
0000							Babson CLO Ltd. 2015-II	CYM	NIA	Babson Capital Management LLC	. Influence		MMLIC	11
0000				-			Babson CLO Ltd. 2016-I	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000				-			Babson Euro CLO 2014-I BV	NLD	NIA	Babson Capital Management LLC	. Influence		MMLIC	
0000							Babson Euro CLO 2014-II BV	NLD	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Babson Euro CLO 2015-I BV	NLD	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							Babson Euro CLO 2016-I BV	NLD	NIA	Babson Capital Management LLC	Influence	-	MMLIC	
0000							Babson Global Credit Fund (Lux) SCSp,	1.10/		Massachusetts Mutual Life Insurance		44.000	188 10	
0000		-					SIACV-SIF	LUX	NIA	Company	Ownership	14.900		
0000							Babson Global Credit Fund (Lux) SCSp,	1.10/					188 10	
0000							SIACV-SIF	LUX	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			47 0074000				Debendant On L. Clop I. S.	DE	A	Massachusetts Mutual Life Insurance	O manufact	00.000	100	
0000			. 47-3971963 .	-			Babson Investment Grade CLO Debt Fund LP	DE	NIA	Company	Ownership.	93.300	. MMLIC	
0000			. 47-3971963 .	-			Babson Investment Grade CLO Debt Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership	6.700	MMLIC	
0000			. 47–3971963				Babson Investment Grade CLO Debt Fund LP	UE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			24-1446970		0001362970		Babson Mezzanine Realty Investors II	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	0.000	MMLIC	
0000		-	24-1446970		0001362970			DE	NIA NIA		Ownership	. 0.000	MMLIC	
0000		.	24-14469/0		10001362970		Babson Mezzanine Realty Investors II	VE	N I A	Cornerstone Real Estate Advisers LLC	Management			

SCHEDULE Y

				PAI	71 I <i>P</i>	I - DE I AIL	. OF INSURANCE	П	JLDII	NG COMPANY S	O I O I E IVI			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
											Type	If		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
	•					<i>'</i>				Massachusetts Mutual Life Insurance	,	Ŭ	, , , , , , , , , , , , , , , , , , ,	
0000]				Baring Emerging Market Corp Debt Fund	JRL	NIA	Company	Ownership	92.200	MMLIC	
0000							Baring Emerging Market Corp Debt Fund	JRL	NIA	Baring Asset Management Limited	Management		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			11-3789446				Baring Focused EAFE Equity Fund	DE	NIA	Company	Ownership	43.400	MMLIC	
0000			11-3789446				Baring Focused EAFE Equity Fund	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
							Baring Global Dynamic Asset Allocation			Massachusetts Mutual Life Insurance				
0000			30-0607379		0001497049		Fund	DE	NIA	Company	Ownership	18.800	MMLIC	
							Baring Global Dynamic Asset Allocation			, ,	,	1		
0000		.	30-0607379	l	0001497049	l	Fund	DE	NIA	Baring Asset Management Limited	Management		MMLIC	
		1]		1		Baring International Small Cap Equity Fund			Massachusetts Mutual Life Insurance			-	
0000		1	26-4142796				and and and and and and	DE	NIA	Company	Ownership	70.900	MMLIC	
			1				Baring International Small Cap Equity Fund							
0000			26-4142796				barring international omati oup Equity Fund	DE	NIA	Baring Asset Management Limited	Management.		MMLIC	
0000			98-0536233				Benton Street Partners I, L.P.	CYM	NIA	MassMutual Capital Partners LLC	Ownership	96.500	MMLIC	
0000			98-0536233				Benton Street Partners I. L.P.	CYM	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			98-0536233				Benton Street Partners I. L.P.	CYM	NIA	C.M. Life Insurance Company	Ownership	0.100	MMLIC	
0000			100 0000200 1				bonton otroot rurthoro 1, E.i.			Massachusetts Mutual Life Insurance	011101 0111p		IIIIE 10	
0000			98-0536233				Benton Street Partners I, L.P.	CYM	NI A	Company	Ownership	0.400		
0000			. 30 0000200 .				benton otrect rarthers 1, E.i.			Massachusetts Mutual Life Insurance	- Owner strip		WILL TO	
0000			98-0536199				Benton Street Partners II, L.P.	CYM	NI A	Company	Ownership	29.600	MMLIC	3
0000		-	98-0536199		-		Benton Street Partners II. L.P.	CYM	NIA	MassMutual Capital Partners LLC	Ownership	8.500	MMLIC	
0000			98-0536199				Benton Street Partners II. L.P.	CYM	NIA	Babson Capital Management LLC	Management		MMLIC	
							2011011 011001 1 41 11101 0 11 7 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Massachusetts Mutual Life Insurance				
0000							Braemar Energy Ventures I, L.P.	DE	NIA	Company	Ownership	94.100	MMLIC	
0000							Braemar Energy Ventures I, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
							2. do.ma. 2.10. gy 10.11d. 00 1; 2.1. 1			Massachusetts Mutual Life Insurance				
0000			06-1614196				Cambridge Hotel, LLC	DE	NIA	Company	Ownership	100.000		
		-								Massachusetts Mutual Life Insurance				
0000			04-1590850				Cheyenne Mountain Resort LLC	DE	NI A	Company	Ownership.	100.000	MMLIC	
					-		Connecticut Valley Structured Credit CDO			oonpan,				
0000							II. Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	5
			1				Connecticut Valley Structured Credit CDO					-		
0000		1					III. Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000		.]	l	.		Cornerstone Core Fund SCSCp	LUX	NIA	MassMutual Holding LLC	Ownership.	94.000	MMLIC	
0000		.]				Cornerstone Core Fund SCSCp	_LUX	NIA	C.M. Life Insurance Company	Ownership.	6.000	MMLIC	
0000]				Cornerstone Core Fund SCSCp	_LUX	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			27-1701622		. 0001481752		Cornerstone Core Mortgage Venture LP	DE	NIA	Company	Ownership	50.000	MMLIC	
0000			27-1701622		0001481752		Cornerstone Core Mortgage Venture I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
			1							Massachusetts Mutual Life Insurance	<u> </u>			
0000		.	45-3751572		. 0001534877		Cornerstone Enhanced Mortgage Fund LP	DE	NIA	Company	Ownership	15.800	MMLIC	
0000			45-3751572		0001534877		Cornerstone Enhanced Mortgage Fund I LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
			1				The second secon			Massachusetts Mutual Life Insurance				
0000		.	20-8730751	l	.		Cornerstone Global Real Estate LP	DE	NI A	Company	Ownership	92.300	MMLIC	
0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.600	MMLIC	
0000			20-8730751				Cornerstone Global Real Estate LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
]							Massachusetts Mutual Life Insurance				
0000		. [36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NIA	Company	Ownership	50.000	MMLIC	
0000			36-4770946		0001590049		Cornerstone High Yield Venture LP	DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	

Column C					PAI	11 I <i>P</i>	- DETAIL	. OF INSURANCE	= N	JLUI	ING COMPANTS	O T O I E IVI			
Part	1	2	3	4	5	6	7	8	9	10	11	Type of Control	If Control	14	15
Company Comp			NAIC				Exchange	Names of		ship		Board, Management,	Owner- ship		
Part		Group Name	Company			CIK	(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting		Influence,	Percen-		*
December		•					,	Cornerstone Hotel Income & Equity Fund II				,			
December	0000			26-1828760 .		0001423638		LP	DE	NIA	Company	Ownership	15.600	. MMLIC	
17-09007 17-09007	0000			26-1828760 .		0001423638			DE	NIA	Cornerstone Real Estate Advisers LLC	Management		MMLIC	
25-2008 25-2											Massachusetts Mutual Life Insurance				
20,000 2															
1.00													10.200		
Commerciation Real Estate Femal VIII P. DE ALL Commerciation Real Estate Femal VIII	0000							COTTICT STOTIC TATE TO TAIL ET				management			
													16.600		
											Massachusetts Mutual Life Insurance				
											Company				
									DE		Corporators Real Estate Advisors II.C.		3.000		
	0000			40-0432019				Cornerstone Real Estate Fund X LP	UE	NIA		management		. MMLIC	
													100.000		
				46-5437441 .					DE						
December									GBR		Babson Capital Management LLC				
Column	0000				. 400/502			Duchess VII CLO B.V.	GBK	NIA	Babson Capital Management LLC	_ Intruence		. MMLIC	
	0000			. 20-3887968 .				E-Wise Land Venture LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
March Marc	0000			80-0691253		0001517196		Gateway Mezzanine Partners I, L.P.		NIA		Ownership	62.500	MMLIC	
Second S															
DO00											MassMutual Holding LLC		10 . 400		
											Massachusetts Mutual Life Insurance				
									DE						
DOOD															
											Babson Capital Management LLC				
	0000			37_1708623		0001565779		Great Lakes III I P	DE	NΙΔ		Ownership	35 700	MMLIC	
20-3887968 Kazwell Realty Partners LLC DE NIA Company Ownership 100.000 MMLIC								Great Lakes III, L.P.			Babson Capital Management LLC				
Massachusetts Mutual Life Insurance Company Compan															
Marco Hotel LLC	0000			. 20-3887968 .				Kazwell Realty Partners LLC	DE	NIA		Ownership	100.000	MMLIC	
Marco Hotel LLC DE NIA Company Ownership 100.000 MMLIC	0000			45-3754085				King Alexander LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
MMI/BDI Riverside Mt. Vernon LLC	0000			40 4055007				Maria di Nata di Na	DE	ALLA		O manaki	100,000	184 10	
.0000	0000			40-425530/				Marco notel LLC	UE	NIA		_ owner snip		IMMLIC	
.0000	0000		.	26-2704765	.			MMI/BDI Riverside Mt. Vernon LLC	DE	NIA	Company	Ownership	100.000		
O000 Cakley Grove Development LLC DE NIA Company Ownership Ownersh	0000			26-3799762				MMI O'Hare Hotel IIC	DF	NIA		Ownership	100 000	MMI IC	
0000											Massachusetts Mutual Life Insurance	·			
0000	0000			20-3887968 .				Oakley Grove Development LLC	DE	NIA		Ownership	100.000		
	0000			20-3887968 .				Old Pasco Properties LLC	DE	NIA	Company	Ownership	100.000	_MMLIC	
	0000			75-2901061				Reston Arboretum LLC	DE	NIA		Ownership	100.000	MMLIC	

				PAI	31 I <i>P</i>	I - DE I AIL	. OF INSURANCE	= N	JLUII	NG COMPANTS)			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
											Type	If		
											of Control	Control		
											(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
_		NAIC				if Publicly Traded	Names of	ciliary	_ to		Attorney-in-Fact,	Provide		
Group	O N	Company	ID	Federal	0114	(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	*
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	
0000			30-0713071 .				Riva Portland LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	INH IC	
0000			. 30-07 1307 1 .				Rockall CLO B.V.	GBR	NIA	Babson Capital Management LLC	Influence		MMLIC	
0000							NOCKATT OLO D.V.		INI /\	Massachusetts Mutual Life Insurance	- IIII Idelice		- WINLIO	
0000			54-2055778				Rockville Town Center LLC	VA	NIA	Company	Ownership.	100.000	MMLIC	
0000		-	2000110				Sapphire Valley CDO I, Ltd.	CYM	NIA	Babson Capital Management LLC	Influence		MMLIC	6
		-								Massachusetts Mutual Life Insurance				
0000		.	74-3182902				SDCOS L.P.	DE	NIA	Company	Ownership	74.900	MMLIC	
0000			74-3182902 .				SDCOS L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 46-5491311 .				Seattle 1415 Hotel Owner LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
l			L		1			1		Massachusetts Mutual Life Insurance				
0000			. 04-1590850 .				Sedona TFMP Land LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			00 0050077		0004400040			DE		Massachusetts Mutual Life Insurance		00 500		
0000			20-8856877 .		0001409910		Somerset Special Opportunities Fund L.P.	DE	NIA	Company	Ownership	62.500	MMLICMMLIC	
0000			. 20-8856877 _. 20-8856877		0001409910		Somerset Special Opportunities Fund L.P Somerset Special Opportunities Fund L.P	DE DE	NIA NIA	C.M. Life Insurance Company	Ownership	2.900	MMLIC	
0000		-	20-0000011		000 14099 10		Somerset Special Opportunities Fund L.F.		NIA	Massachusetts Mutual Life Insurance	Management		- INMILIO	
0000			04-1590850 .				South Myrtle Monrovia MM LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			1000000 .				Oddin myr tre moni ovia mm EEO			Massachusetts Mutual Life Insurance	- Offici Sirip		MILE TO	
0000			20-3887968				South Pasco Properties LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance	'			
0000			30-0336246 _		0001345379		Tower Square Capital Partners II, L.P	DE	NIA	Company	Ownership	25.700	MMLIC	
0000			30-0336246 .		0001345379		Tower Square Capital Partners II, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	4.500	MMLIC	
0000		-	30-0336246 .		0001345379		Tower Square Capital Partners II, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			30-0336246 .		0001345379		Tower Square Capital Partners II, L.P	DE	NIA	MassMutual Holding LLC	Ownership	2.600	MMLIC	
0000			00 0400400				T 0 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE		Massachusetts Mutual Life Insurance		85.000	MMLIC	
0000			. 32-0160190 . . 32-0160190 .				Tower Square Capital Partners II-A, L.P Tower Square Capital Partners II-A, L.P	DE	NIA NIA	Company	Ownership		MMLIC	
0000		-	32-0160190 .				Tower Square Capital Partners II-A, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000		-	41-2280127		0001447547		Tower Square Capital Partners III, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			41-2280127		0001447547		Tower Square Capital Partners III, L.P.	DE	NIA	MassMutual Holding LLC	Ownership	22.800	MMLIC	
										Massachusetts Mutual Life Insurance				
0000		.	41-2280129 .		0001447548		Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership	96.600	MMLIC	
0000			41-2280129 .		0001447548		Tower Square Capital Partners IIIA, L.P.	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			. 80-0920367 .		0001598727		Tower Square Capital Partners IV-A, L.P.	DE	NIA	MassMutual Holding LLC	Ownership	21.500	MMLIC	
0000		-	. 80-0920367 .		0001598727		Tower Square Capital Partners IV-A, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
0000			04 070000		0004000					Massachusetts Mutual Life Insurance		44 ***		
0000		-	04-3722906 .		0001228752 0001228752		Tower Square Capital Partners, L.P.	DE DE	NIA	Company	Ownership	41.100	MMLICMMLIC	
0000			. 04-3722906 . . 04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA NIA	C.M. Life Insurance Company	Ownership	0.600	MMLIC	
0000		-	04-3722906 .		0001228752		Tower Square Capital Partners, L.P	DE	NIA NIA	MassMutual Holding LLC	Ownership		MMLIC	
0000		-	. 07 0122300 .		000 12201 02		ionoi oquale oapital raitheis, L.F.		NI/\	Massachusetts Mutual Life Insurance	Omner and p		mmL1V	
0000			04-1590850 .				West 46th Street Hotel LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
0000							Whately CDO, Ltd.	CYM	NIA	Babson Capital Management LLC	Influence.		MMLIC	
							, .,			Massachusetts Mutual Life Insurance				
0000			20-4981369 .		0001371601		Wood Creek Multi Asset Fund, L.P	DE	NIA	Company	Ownership	100.000	MMLIC	
0000			20-4981369 .		0001371601		Wood Creek Multi Asset Fund, L.P	DE	NIA	Babson Capital Management LLC	Management		MMLIC	
							Babson Capital Emerging Markets Debt							
0000		.					Blended Total Return Fund	JRL	NIA	Babson Capital Management LLC	Management		MMLIC	

Range	14 15
Group Name	
Durat in Find Babson Capital Empring Markets Soveraign JRL NIA Subbon Capital Management LLC Management Multic Babson Capital Floating Rate Income Fund LP Misson Capital Management LLC Management Multic Multic Misson Capital Management LLC Management Multic Multic Misson Capital Management LLC Management LL	Itimate Controlling htty(ies)/Person(s) *
Babbon Capital Energing Markets Seversign Debt Fird Babbon Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Capital Floating Rate Income Fund, L.P. Debt Fund Babbon Capital Global Investment Grade J.R. N.I.A. Babbon Capital Management LLC Management LLC Management LLC Management LLC Debt Fund Babbon Capital Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Babbon Capital Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Babbon Capital Management LLC Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Babbon Capital Management LLC Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Babbon Capital Management LLC Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Babbon Capital Management LLC Management LLC Management LLC Babbon Energing Markets Local Currency Debt Fund Debt Fund LLC De	
Debt Fund	
Description Company	
Babson Capital Floating Rate Income Fund, LP Part Response LP Part Response LP Response LP	
Description	
December December	
Description	
Babson Energing Markets Debt Blended Total MAL Sabson Capital Management LLC Management MAL C Management MAL Management MAL C Management MAL C Management MAL Management MAL C Management MAL MAL MAL Manage	
A	
Debt Find	
Babson Global Income Opportunities Credit Fund	
DODG	
DOOD 47-3790192 Babson Global High Yield Bond Fund MA NIA Babson Capital Management LLC Management Management MA NIA Babson Capital Management MA Management MA Management MA Management Manag	
MA NIA Babson Capital Management LLC Management MA MIC	
Gateway Mezzanine Partners Trust	
Dec	
0000 71-1018134 Great Lakes II LLC DE NIA Company Ownership 11.200 MMLIC 0000 71-1018134 Great Lakes II LLC DE NIA C.M. Life Insurance Company Ownership 1.000 MMLIC 0000 56-2505390 Great Lakes LLC DE NIA Company Ownership 4.400 MMLIC 0000 56-2505390 Great Lakes LLC DE NIA C.M. Life Insurance Company Ownership 4.400 MMLIC 0000 46-2344300 Intermodal Holdings II LLC DE NIA Wood Creek Capital Management LLC Influence MMLIC 0000 46-2344300 LP CYM NIA Babson Capital Management LLC Influence MMLIC 0000 46-2344300 Wood Creek Venture Fund LLC DE NIA Company Ownership 4.400 MMLIC 0000 46-2344300 Wood Creek Venture Fund LLC DE NIA Company Ownership 4.400 MMLIC 0000 4	
DE	
.0000 56-2505390 Great Lakes LLC DE NIA Company Ownership .4.400 MMLIC .0000 56-2505390 Great Lakes LLC DE NIA C.M. Life Insurance Company Ownership .0.500 MMLIC .0000 46-2344300 Intermodal Holdings II LLC DE NIA Wood Creek Capital Management LLC Influence MMLIC .0000 LP CYM NIA Babson Capital Management LLC Management MMLIC .0000 Wood Creek Venture Fund LLC DE NIA Company Ownership	
0000 56-2505390 Great Lakes LLC DE NIA C.M. Life Insurance Company Ownership 0.0500 MMLIC	
DODG	
Massachusetts Mutual Life Insurance	
12-18 West 55th Street Predevelopment, LLC Massachusetts Mutual Life Insurance 0wnership	
Massachusetts Mutual Life Insurance 46-4803557 2 Harbor Shore Member LLC DE NIA Company Ownership 62.800 MMLIC	
Massachusetts Mutual Life Insurance	
Massachusetts Mutual Life Insurance 45-5257904 21 West 86 LLC DE NIA Company Ownership 96.900 MMLIC	

				PAF	II IA-DE	I AIL OF INSURANC		JLUI	ING COMPANY S	O I O I E IVI			
1	2	3	4	5	6 7	8	9	10	11	12	13	14	15
										Type	If		
										of Control	Control		
										(Ownership,	is		
					Name of Se			Relation-		Board,	Owner-		
					Exchar		Domi-	ship		Management,	ship		
		NAIC			if Publicly		ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal	(U.S.		Loca-	Reporting		Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK Internation	onal) Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
									Massachusetts Mutual Life Insurance				
0000			45-2779931			AT Mid-Atlantic Office Portfolio LLC	DE	NI A	Company	Ownership	90.000	MMLIC	
0000			45-2779931	-		AT Mid-Atlantic Office Portfolio LLC	DE	NI A	C.M. Life Insurance Company	Ownership	10.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			04-1590850			CHC/RFP VI Core LLC	DE	NI A	Company	Ownership	100.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			56-2630592			Cornerstone Fort Pierce Development LLC		NIA	Company	Ownership	84.400	MMLIC	
0000			56-2630592			Cornerstone Fort Pierce Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.600	MMLIC	
			45 00	1					Massachusetts Mutual Life Insurance				
0000			45-2632610			Cornerstone Permanent Mortgage Fund	DE	NIA	Company	Ownership	100.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			61–1750537			Cornerstone Permanent Mortgage Fund II .	MA	NIA	Company	Ownership	100.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			46-5001122			CREA 330 Third LLC	DE	NIA	Company	Ownership	92.000	MMLIC	
0000			46-5001122			CREA 330 Third LLC	DE	NIA	C.M. Life Insurance Company	Ownership	8.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			46-4367364			CREA FMF Nashville LLC	DE	NIA	Company	Ownership	100.000	MMLIC	
									Massachusetts Mutual Life Insurance				
0000			26-2399532			CREA/LYON West Gateway, LLC	DE	NIA	Company	Ownership	54.000	MMLIC	
0000			26-2399532			CREA/LYON West Gateway, LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC	
0000			81-0890084			CREA Madison Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC	
						0051 /000 W			Massachusetts Mutual Life Insurance				
0000			20-0348173			CREA/PPC Venture LLC	DE	NIA	Company	Ownership	93.400	MMLIC	
0000			20-0348173			CREA/PPC Venture LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.600	MMLIC	
2000			00 4044504	0050000		E 11 0 1 0 100 110	DE		Massachusetts Mutual Life Insurance		07.000	188 10	
0000			26-1611591	. 3956836 3956836		Fallon Cornerstone One MPD LLC	DE DE	NIA	Company	Ownership	67.000	MMLIC	
0000			26-1611591	. 3956836		Failon Cornerstone One MPD LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.600	MML1C	
0000			00 0047004			Fra Dire Development II O	DE	ALL A		0	00 000	MMLIC	
0000			20-3347091			Fan Pier Development LLC	DE	NIA NIA	Company	Ownership	5.900	MMLIC	
0000			20-3347091			Fan Pier Development LLC	I	NIA	Massachusetts Mutual Life Insurance	Ownership	5.900		
0000			46-3880526			Forringdon London Holdings IIC	DE	NIA	Company	Ownership	94.500	MMLIC	
0000			46-3880526			Farringdon London Holdings LLCFarringdon London Holdings LLC	DE	NIA NIA	C.M. Life Insurance Company	Ownership	5.500	MMLIC	
0000			+0-3000320				UE	N I M	Massachusetts Mutual Life Insurance				
0000						Infinity SCD Ltd	GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership	4.200	MMLIC	
0000			-	1		IIII III LY 300 LLU	חסוט	N I M	Massachusetts Mutual Life Insurance	O#IIG1 9111h	4.200		
0000			20-4819358			Johnston Groves LLC	DE	NIA	Company	Ownership	57.200	MMLIC	
0000			20-40 13000			OUIIISTUII GIOVES LLO		NI /\	Massachusetts Mutual Life Insurance	Office of the	200	WINE TO	
0000			46-5347643	1		MMI/Hines Harrison LLC	DE	NIA	Company	Ownership.	82.800	MMLIC	
0000			46-5347643			MMI/Hines Harrison LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC	
0000			13 00-770-70	-		mill/lillics riai i 13011 LL0			Massachusetts Mutual Life Insurance				
0000			46-4077059			MM Woodfield Martingale LLC	DE	NI A	Company	Ownership	80.400	MMLIC	
0000			46-4077059			MM Woodfield Martingale LLC	DE	NIA	C.M. Life Insurance Company	Ownership	19.600	MMLIC	
0000			40 4011000			Salomon Brothers Commercial Mortgage Tr				σπισι σπιρ			
0000				1		2001-MM	DE	NIA	Cornerstone Real Estate Advisers LLC	Influence		MMLIC	
				1		2001 mm			Massachusetts Mutual Life Insurance		-		
0000			27-2977720			Sawgrass Village Shopping Center LLC	DE	NIA	Company	Ownership.	84.200	MMLIC	
0000			27-2977720			Sawgrass Village Shopping Center LLC	DE	NIA	C.M. Life Insurance Company	Ownership	15.800	MMLIC	
0000									Massachusetts Mutual Life Insurance	omioi omp			
0000				1		Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership	91.000	MMLIC	
0000				1		Ten Fan Pier Boulevard LLC	DE	NIA	C.M. Life Insurance Company	Ownership	9.000	MMLIC	
		1		-1		Ion I an I for Boulevalu LLO	VL	III /\		vv i v i p			

				PAF	KI IA	- DETAIL	. OF INSURANCE	. П(JLUII	NG COMPANY S	Y S I E IVI			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
											Type	lf Otl		
											of Control (Ownership,	Control is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		!
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
0000			35-2484550 .				Twenty Two Liberty LLC	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	72.900		
0000			35-2484550 .				Twenty Two Liberty LLC	MA	NIA	C.M. Life Insurance Company	Ownership	7.200	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-4606547 .				UK LIW Manager LLC	DE	NIA	Company	Ownership	1.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-4606547 .				UK LIW Member LLC	DE	NIA	Company	Ownership	99.000	MMLIC	
0000			45-5401109 .				Washington Gateway Apartments Venture LLC _	DE	NI A	Company	Ownership	92.000		
0000			45-5401109				Washington Gateway Apartments Venture LLC .	DE	NIA	C.M. Life Insurance Company	Ownership	4 . 800	MMLIC	
										Massachusetts Mutual Life Insurance	·			
0000			20-2970495 .				Waterford Development Associates	DE	NIA	Company	Ownership	90.000	MMLIC	
0000			47-1993493				Waterloo London Holdings LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	
0000			. 47-1993493 .				waterioo London Holdings LLC	VE	NIA	Massachusetts Mutual Life Insurance	Owner Sn Ip	100.000	MINIL TO	
0000			46-3122029				WeHo Domain LLC	DE	NIA	Company	Ownership	77.400	MMLIC	
0000			46-3122029				WeHo Domain LLC	DE	NIA	C.M. Life Insurance Company	Ownership	12.600	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			81-1552222 .				Willowwood Lakeside Master LLC	DE	NI A	Company	Ownership	50.000	MMLIC	
0000			20-5481477 .				Ygnatio Valley Funding	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	90.000	MMLIC	
0000			. 20-3401477 .				MassMutual Barings Dynamic Allocation Fund		NI /\	Massachusetts Mutual Life Insurance	owner strip		WWE TO	
0000			45-3168892 .			OQ		MA	NIA	Company	Ownership	99.600	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			51-0529328		0000927972	00	MassMutual Premier Main Street Fund	MA	NIA	Company	Ownership	. 40.300	MMLIC	
0000			26-3229251 .		0000927972	00	MassMutual Premier Strategic Emerging Markets Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	19 . 300	MMLIC	
0000			. 20-3223231 .		0000921912	Ou	markets rulu	WA	NI /\	Massachusetts Mutual Life Insurance	owner strip	13.300	WWL C	
0000			04-3277550 .		0000927972	OQ	MassMutual Premier Value Fund	MA	NIA	Company	Ownership	97.800	MMLIC	
							MassMutual Select Diversified			Massachusetts Mutual Life Insurance				
0000			14-1980900 .		0000916053	00	International Fund	MA	NIA	Company	Ownership	51.500	MMLIC	
0000			01-0821120		0000916053	00	MassMutual Select Diversified Value Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	17.500	MMLIC	
0000			01-0021120		60009 10009	Ou	massimutuan senect Diversinieu value Fullu	WA	INI /\	Massachusetts Mutual Life Insurance	omier sittp			
0000			04-3512593 .		0000916053	00	MassMutual Select Fundamental Growth Fund .	MA	NIA	Company	Ownership	16.200	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 04-3513019 .		0000916053	OQ	MassMutual Select Large Cap Value Fund	MA	NIA	Company	Ownership	100.000	MMLIC	
0000			42-1710935		0000916053	00	MassMutual Select Mid-Cap Value Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership.	99.100	MMLIC	
0000			. TE 11 10300 .		00000 10000	Out	MassMutual Select Small Capital Value	m/\	IVI7	Massachusetts Mutual Life Insurance	omici sirip			
0000			02-0769954		0000916053	00	Equity Fund	MA	NIA	Company	Ownership	24.600	MMLIC	
							MassMutual Select Small Company Value Fund			Massachusetts Mutual Life Insurance				
0000			04-3584140 .		0000916053	0Q		MA	NIA	Company	Ownership	44.200	MMLIC	
0000			46-4257056 .		0000067160		MML Series International Equity Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	8.000		
0000			0-4237030 .		100		minima Gerres International Equity Fund	M.	N I M	Massachusetts Mutual Life Insurance	omici sirip	0.000		
0000			47-3517233 .		0001317146		MML Series II Asset Momentum Fund	MA	NIA	Company	Ownership	97.200	MMLIC	
										Massachusetts Mutual Life Insurance	·			
0000			47-3529636 .		0001317146		MML Series II Dynamic Bond Fund	MA	NIA	Company	Ownership	4.700	MMLIC	
0000			47 0544000		0001017140		MM. Coming II Family Detation Ford		NII A	Massachusetts Mutual Life Insurance	Ownership	00 000	IMI 10	
0000		<u> </u>	47-3544629	<u> </u>	0001317146	l	MML Series II Equity Rotation Fund	MA	NIA	Company	Ownership	99.000	MMLIC	

SCHEDULE Y

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											Type			
											of Control	Control		
									- · · ·		(Ownership,	is		
						Name of Securities			Relation-		Board,	Owner-		
						Exchange		Domi-	ship		Management,	ship		
_		NAIC				if Publicly Traded	Names of	ciliary	_ to		Attorney-in-Fact,	Provide		
Group		Company		Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	*
										Massachusetts Mutual Life Insurance				
0000			. 47-3559064 .		0001317146		MML Series II Special Situations Fund	MA	NIA	Company	Ownership	98.900	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 46-3289207 .		0000916053		MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	28.400	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			. 47-5326235 .		0000916053		MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership	100.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-1618155 .		0000916053		MassMutual RetireSMART Conservative Fund	MA	NIA	Company	Ownership	85.000	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-1618222 .		0000916053		MassMutual RetireSMART Growth Fund	MA		Company	Ownership	95.300	MMLIC	
										Massachusetts Mutual Life Insurance				
0000			45-1618262 .		0000916053		MassMutual RetireSMART Moderate Fund	MA	NIA	Company	Ownership	68.500		
							MassMutual RetireSMART Moderate Growth			Massachusetts Mutual Life Insurance				
0000			45-1618046 .		0000916053		Fund	MA	NIA	Company	Ownership	99.400	MMLIC	
0000			45-3417590		0001530245		Oppenheimer Global High Yield Fund	DE	NIA	OppenheimerFunds, Inc.	Management		MMLIC	
										Massachusetts Mutual Life Insurance	_			
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE	NIA	Company	Ownership	46.100	MML1C	
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE	NIA	C.M. Life Insurance Company	Ownership	3.800	MML1C	
0000			46-1604428		0001562689		Oppenheimer Global Real Estate Fund	DE	NIA	OppenheimerFunds, Inc.	Management		MML1C	
							Oppenheimer Global Multi-Asset Growth Fund			.,,				
0000			47-3676235					DE	NIA	OppenheimerFunds, Inc.	Management		MMLIC	
			1				Oppenheimer Global Multi-Asset Income Fund			111				
0000		.	47-1714929					DE	NIA	OppenheimerFunds, Inc.	Management		MMLIC	
0000			47-4835759				Oppenheimer Small Cap Value Fund	DE	NIA	OppenheimerFunds. Inc.	Management		MMLIC	
0000			47-3987967				Oppenheimer SteelPath Panoramic Fund	DE	NIA	OppenheimerFunds. Inc.	Management		MMLIC	
			1 555,567					1				-		
		- 1	1	1	1	1	1	1		1	1	1	1	

Asterisk	Explanation
1	Massachusetts Mutual Life Insurance Company owns 1.09% of the affiliated debt of Jefferies Finance LLC
2	Debt investors own 3.6% and includes only Great Lakes III, L.P.
3	Partnership investors own 99% and include Babson Loan Strategies Fund, L.P.
4	Debt investors own 4.1% and includes only Babson Capital Loan Strategies Fund, L.P.
5	Debt investors own 44.4% and includes only Connecticut Valley Structured Credit CDO III, Ltd.
6	Debt investors own 55.1% and includes only Babson Capital Loan Strategies Fund, L.P.
7	Debt investors own 7.7% and includes only Babson Capital Loan Strategies Fund, L.P.
8	Debt investors own 4.3% and includes only Great Lakes III, L.P.
9	Debt investors own 5.4% and includes only Great Lakes III, L.P.
10	Debt investors own 2.0% and includes only Great Lakes III, L.P.
11	Debt investors own 3.8% and includes only Great Lakes III, L.P.

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

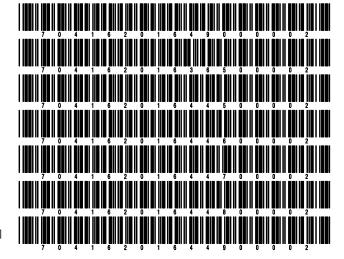
The following supplemental reports are required to be filed as part of your statement filing. However, in the event that your company does not transact the type of business for which the special report must be filed, your response of NO to the specific interrogatory will be accepted in lieu of filing a "NONE" report and a bar code will be printed below. If the supplement is required of your company but is not being filed for whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.

	_	Response
1.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2.	Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
5.	Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC?	NO
6.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
7.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
	Explanation:	
1.	Not required.	
2.	Not required.	
3.	Not required.	
4.	Not required.	
5.	Not required.	
6.	Not required.	

Bar Code:

7. Not required.

- . Trusteed Surplus Statement [Document Identifier 490]
- 2. Medicare Part D Coverage Supplement [Document Identifier 365]
- Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]
- Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]
- Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]



OVERFLOW PAGE FOR WRITE-INS

NONE

SCHEDULE A - VERIFICATION

Real Estate

		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year		
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.2 Additional investment made after acquisition		
3.	Current year change in encumbrances		
4.	Total gain (loss) on disposals		
5.	Deduct amounts received on disposals		
6.	Total foreign exchange change in book/adjusted a rryin val e		
7.	Deduct current year's other than temporary impail nent related ized		
8.	Deduct current year's depreciation		
9.	Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)		
10.	Deduct total nonadmitted amounts		
11.	Statement value at end of current period (Line 9 minus Line 10)		

SCHEDULE B - VERIFICATION

Mortgage Loans

	Wortgage Loans		
		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book value/recorded investment excluding accrued interest, December 31 of prior year	5,847,458	4,170,281
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		2,383,218
	2.2 Additional investment made after acquisition	1,069	11,779
3.	Capitalized deferred interest and other		
4.	Accrual of discount	759	1,132
5.	Unrealized valuation increase (decrease) Total gain (loss) on disposals Deduct amounts received on disposals		
6.	Total gain (loss) on disposals		
7.	Deduct amounts received on disposals	972,900	711,572
8.	Deduct amortization of premium and mortgage interest points and commitment fees	6,293	
9.	Total foreign exchange change in book value/recorded investment excluding accrued interest		
10.	Deduct current year's other than temporary impairment recognized		
11.	Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	4,870,093	5,847,458
12.	Total valuation allowance		
13.	Subtotal (Line 11 plus Line 12)	4,870,093	5,847,458
14.	Deduct total nonadmitted amounts		
15.	Statement value at end of current period (Line 13 minus Line 14)	4,870,093	5,847,458

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	Other Long-Term invested Assets		
	1	1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value, December 31 of prior year		
2.	Cost of acquired:		
	2.1 Actual cost at time of acquisition		
	2.2 Additional investment made after acquisition		
3.	Capitalized deferred interest and other		
4.	Accrual of discount		
5.	Unrealized valuation increase (decrease)		
6.	Total gain (loss) on disposals		
7.	Deduct amounts received on disposals		
8.	Deduct amortization of premium and depreciation		
9.	Total foreign exchange change in book/adjusted carrying value		
10.	Deduct current year's other than temporary impairment recognized		
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)		
12.	Deduct total nonadmitted amounts		
13.	Statement value at end of current period (Line 11 minus Line 12)		

SCHEDULE D - VERIFICATION

Bonds and Stocks

		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book/adjusted carrying value of bonds and stocks, December 31 of prior year	222,828,946	144,280,400
2.	Cost of bonds and stocks acquired	49,539,556	106,312,490
3.	Accrual of discount	226,556	
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	83,281	274,487
6.	Deduct consideration for bonds and stocks disposed of		28,413,616
7.	Deduct amortization of premium		
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized	6,452	2,337
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	252,952,631	222,828,946
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	252,952,631	222,828,946

SCHEDULE D - PART 1B

Showing the Acquisitions, Dispositions and Non-Trading Activity
During the Current Quarter for all Bonds and Preferred Stock by NAIC Designation

	1	2	3	4	5	6	7	8
	Book/Adjusted	_	ŭ		Book/Adjusted	Book/Adjusted	Book/Adjusted	Book/Adjusted
	Carrying Value	Acquisitions	Dispositions	Non-Trading Activity	Carrying Value	Carrying Value	Carrying Value	Carrying Value
NAIC Designation	Beginning of Current Quarter	During Current Quarter	During Current Quarter	During Current Quarter	End of First Quarter	End of Second Quarter	End of Third Quarter	December 31 Prior Year
NAIC Designation	or current Quarter	Current Quarter	Current Quarter	Current Quarter	First Quarter	Second Quarter	mira Quarter	Prior Year
BONDS								
1. NAIC 1 (a)	155,629,071	15,715,251	7,344,528	270.765	155,629,071	164,270,559		138,526,263
2. NAIC 2 (a)	, ,	301,911,760	302,314,728	'	135,869,993	135,328,008		140,892,993
	2,375,892	504.961	302,314,720	` ' '	2,375,892	2,559,697		2,529,021
3. NAIC 3 (a)			101	, , ,	, ,			, ,
4. NAIC 4 (a)				310,179	1,405,286	1,715,465		136,049
5. NAIC 5 (a)	872,910		40,698	3,873	872,910	836,085		745,687
6. NAIC 6 (a)	72,425			(2,040)	72,425	70,385		77,165
7. Total Bonds	296,225,577	318, 131, 972	309,700,105	122,755	296,225,577	304,780,199		282,907,179
PREFERRED STOCK								
8. NAIC 1								
9. NAIC 2								
10. NAIC 3								
11. NAIC 4								
12. NAIC 5								
13. NAIC 6								
14. Total Preferred Stock								
15. Total Bonds and Preferred Stock	296,225,577	318, 131, 972	309,700,105	122,755	296,225,577	304,780,199		282,907,179
10. Total Bonds and Fletened Otton	200,220,011	010, 101,012	000,700,100	122,700	200,220,011	007,700,100		202,007,170

NAIC 4 \$; NAIC 5 \$.....; NAIC 6 \$.....

SCHEDULE DA - PART 1

Short-Term Investments

	1	2	3	4	5 Paid for
	Book/Adjusted Carrying Value	Par Value	Actual Cost	Interest Collected Year-to-Date	Accrued Interest Year-to-Date
9199999 Totals	4,491,718	XXX	4,482,365		

SCHEDULE DA - VERIFICATION

Short-Term Investments

		1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	4,995,929	16,484,333
2.	Cost of short-term investments acquired		
3.	Accrual of discount	13,425	65,530
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals		66
6.	Deduct consideration received on disposals	5,000,001	43,999,932
7.	Deduct amortization of premium		
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized		
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	4,491,718	4,995,929
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	4,491,718	4,995,929

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards NONE

Schedule DB - Part B - Verification - Futures Contracts $N\ O\ N\ E$

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open NONE

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open $N\ O\ N\ E$

Schedule DB - Verification - Book/Adjusted Carrying Value, Fair Value and Potential Exposure of Derivatives

NONE

SCHEDULE E - VERIFICATION

(Cash Equivalents)

	(Odon Equivalents)	1	2
		Year To Date	Prior Year Ended December 31
1.	Book/adjusted carrying value, December 31 of prior year	55,082,304	96, 153, 220
2.	Cost of cash equivalents acquired	636,496,270	1,413,157,613
3.	Accrual of discount	205,060	396,635
4.	Unrealized valuation increase (decrease)		
5.	Total gain (loss) on disposals	(1,154)	89
6.	Deduct consideration received on disposals	644,446,630	1,454,625,253
7.	Deduct amortization of premium		
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Deduct current year's other than temporary impairment recognized		
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	47,335,850	55,082,304
11.	Deduct total nonadmitted amounts		
12.	Statement value at end of current period (Line 10 minus Line 11)	47,335,850	55,082,304