

LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES - ASSOCIATION EDITION

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2024 OF THE CONDITION AND AFFAIRS OF THE

MANHATTAN NATIONAL LIFE INSURANCE COMPANY

	NAIC Group Code		0435	NAIC Con	npany Code	67083	Employer's ID	Number _	45-0252531
Organized under the Laws	of	, ,	(Prior) hio		, Sta	ate of Domi	cile or Port of En	ntry	OH
Country of Domicile				United	States of Ar	nerica			
Licensed as business type		Li	fe, Accide	nt and Heal	th[X] Frate	rnal Benefit	Societies []		
Incorporated/Organized		12/20/1956			=	Commence	ed Business		01/04/1957
Statutory Home Office		91 Rosa Parl	s Street						OH, US 45202
		(Street and N	lumber)				(City or T	Fown, State,	Country and Zip Code)
Main Administrative Office					Rosa Parks S				
	Cincinnati, OH,	US 45202		(St	reet and Num	iber)		513-3	61-9000
(Cit	y or Town, State, Co		Code)				(Are	ea Code) (Te	elephone Number)
Mail Address	Post	Office Box 54	120					Cincinnati, (OH, US 45201
	(Street and	d Number or F	O. Box)				(City or T	Town, State,	Country and Zip Code)
Primary Location of Books	and Records			191	Rosa Parks	Street			
. ,				(St	reet and Nun	nber)			
——————————————————————————————————————	Cincinnati, OH, v or Town, State, Co		Code)				(Are		elephone Number)
(y or 10wn, oldio, 00	and and ap	0040,				,	, ,	,
Internet Website Address				www.m	assmutualas	cend.com			
Statutory Statement Conta	act	Robert		Earle II					513-361-9077
	rearle@mmas	cend com	(Name)		LI.				e) (Telephone Number) 45-9484
	(E-mail Ad								Number)
					OFFICERS				
Preside	nt	Mark Francis	Muething		OFFICERS	•	Treasurer		Brian Patrick Sponaugle
	ry					Appoint	ted Actuary		Dominic Joseph Moster
					OTHER				
Domin	nic Lusean Blue			D	onna Marie C	arrelli			Michael Harrison Haney
				DIRECT	ORS OR T	DIICTEES			
Domir	nic Lusean Blue			Eliza	abeth Ward C	hicares			Susan Marie Cicco
	James Craddock Andrew Merritt				ger William C rk Francis Mu				Paul Anthony LaPiana Michael James O'Connor
	William Partlan				ur William W				Wichael James & Common

State of	Ohio		— s	St					
County of	Hamilton			0.					
all of the herein describe statement, together with r condition and affairs of th in accordance with the N rules or regulations req- respectively. Furthermon- exact copy (except for for to the enclosed statement	d assets were the all elated exhibits, schele e said reporting entity AIC Annual Statementine differences in re- ine differences in re- te, the scope of this a matting differences d	esolute proper dules and expl as of the rep nt Instructions eporting not re attestation by t	ty of the standions to orting period and Accordated to the describer.	aid reportir herein cont- od stated al ounting Prac accounting sed officers the enclos	ng entity, free ained, annex cove, and of tices and Pro practices ar also includes	e and clear ed or referre ts income a occedures m and procedu s the relate.	from any liens of ed to, is a full an and deductions to nanual except to tres, according to d corresponding	or claims the d true states herefrom for the extent to to the best electronic for	ereon, except as herein stated, and that this ment of all the assets and liabilities and of the reperiod ended, and have been completed hat: (1) state law may differ; or, (2) that state of their information, knowledge and belief, filling with the NAIC, when required, that is and by various regulators in lieu of or in addition Brian Patrick Sponaugle Treasurer
Subscribed and sworn to da	before me this y of	Nove	mber 2024			b. If no. 1. Stat 2. Date	an original filing? te the amendmen e filed nber of pages at	nt number,	*****



Kelly Buller Notary Public, State of Ohio My Commission Expires: October 14, 2028

ASSETS

	AS	SEIS			
		1	Current Statement Date 2	3 Net Admitted Assets	4 December 31 Prior Year Net
		Assets	Nonadmitted Assets	(Cols. 1 - 2)	Admitted Assets
	Bonds	110,603,335		110,603,335	111,926,519
	Stocks:			_	_
	2.1 Preferred stocks				0
	2.2 Common stocks			0	0
	Mortgage loans on real estate:				_
	3.1 First liens				0
	3.2 Other than first liens			0	0
	Real estate:				
	4.1 Properties occupied by the company (less \$			0	0
	encumbrances)			0	0
	4.2 Properties held for the production of income (less			0	0
	\$encumbrances)			0	0
	4.3 Properties held for sale (less \$				•
	encumbrances)			0	0
5.	Cash (\$2,227,070), cash equivalents				
	(\$6,077,404) and short-term				
	investments (\$				
	Contract loans (including \$ premium notes)			3,888,368	
	Derivatives				0
	Other invested assets			0	
	Receivables for securities			0	0
	Securities lending reinvested collateral assets				
	Aggregate write-ins for invested assets				
	Subtotals, cash and invested assets (Lines 1 to 11)	122,796,177	0	122,796,177	126,597,354
	Title plants less \$ charged off (for Title insurers			0	
	only)			0	
	Investment income due and accrued	1,038,345		1,038,345	1,431,311
	Premiums and considerations:	105 400	0.700	116 770	115 010
	15.1 Uncollected premiums and agents' balances in the course of collection	125,493	0,720	110,773	115,218
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$earned but unbilled premiums)	2 880 564	16 204	2,873,360	2 087 8/2
	15.3 Accrued retrospective premiums (\$	2,009,504	10,204	2,073,000	2,907,042
	contracts subject to redetermination (\$			0	0
16.	Reinsurance:				
	16.1 Amounts recoverable from reinsurers	683 498		683,498	585 667
	16.2 Funds held by or deposited with reinsured companies				0
	16.3 Other amounts receivable under reinsurance contracts				0
	Amounts receivable relating to uninsured plans				0
	Current federal and foreign income tax recoverable and interest thereon				
	Net deferred tax asset				
	Guaranty funds receivable or on deposit			30,544	
	Electronic data processing equipment and software			0	0
	Furniture and equipment, including health care delivery assets				
	(\$			0	0
22.	Net adjustment in assets and liabilities due to foreign exchange rates				0
	Receivables from parent, subsidiaries and affiliates				0
24.	Health care (\$) and other amounts receivable			0	0
	Aggregate write-ins for other than invested assets				0
	Total assets excluding Separate Accounts, Segregated Accounts and				
	Protected Cell Accounts (Lines 12 to 25)	128, 161, 575	24,924	128, 136, 651	132,078,054
27.	From Separate Accounts, Segregated Accounts and Protected Cell Accounts				0
28.	Total (Lines 26 and 27)	128,161,575	24,924	128,136,651	132,078,054
	DETAILS OF WRITE-INS	0, 101,010	27,027	.20, 100,001	.02,010,004
1101.	DETAILS OF WILLIAMS				
1101.					
1102.					
	Summary of remaining write-ins for Line 11 from overflow page			0	0
	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0	0	0	0
	Miscellaneous receivable		,	2,172	0
2502.		<i>'</i>		2, 172	0
2502. 2503.					
	Summary of remaining write-ins for Line 25 from overflow page				
	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	2,172	0		0
∠၁ყყ.	rotais (Lines 2001 trirough 2503 plus 2598)(Line 25 above)	2, 1/2	1 0	2,112	(

LIABILITIES, SURPLUS AND OTHER FUNDS

	·	1 Current Statement Date	2 December 31 Prior Year
1.	Aggregate reserve for life contracts \$		
2.	(including \$	52,579	57,089,689
3.	Liability for deposit-type contracts (including \$ Modco Reserve)	2,271,917	2,513,696
	Contract claims: 4.1 Life	3.049.238	3.128.647
	4.2 Accident and health		
	Policyholders' dividends/refunds to members \$		
	Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated		
	amounts: 6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$		
	Modco)	8,000	8,000
	6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$		
	6.3 Coupons and similar benefits (including \$		
	Premiums and annuity considerations for life and accident and health contracts received in advance less		
9.	\$ discount; including \$ accident and health premiums	36 , 184	54,063
	9.1 Surrender values on canceled contracts		
	9.2 Provision for experience rating refunds, including the liability of \$		
	Service Act		
	9.3 Other amounts payable on reinsurance, including \$	00.074	45 704
	ceded		
	Commissions to agents due or accrued-life and annuity contracts \$, accident and health		
11.	\$ and deposit-type contract funds \$ Commissions and expense allowances payable on reinsurance assumed		
12.	General expenses due or accrued		
13.	Transfers to Separate Accounts due or accrued (net) (including \$ accrued for expense allowances recognized in reserves, net of reinsured allowances)		0
14.	Taxes, licenses and fees due or accrued, excluding federal income taxes		
15.1	Current federal and foreign income taxes, including \$ on realized capital gains (losses)		0
	Net deferred tax liability		
17.	Amounts withheld or retained by reporting entity as agent or trustee	5,029	19,685
18. 19.	Amounts held for agents' account, including \$		450,380
	Net adjustment in assets and liabilities due to foreign exchange rates		
	Liability for benefits for employees and agents if not included above		
	Borrowed money \$ and interest thereon \$		
24.	Miscellaneous liabilities:		
	24.01 Asset valuation reserve		
	24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		0
	24.04 Payable to parent, subsidiaries and affiliates		
	24.05 Drafts outstanding		
	24.07 Funds held under coinsurance	44,847,380	46,459,611
	24.08 Derivatives		0
	24.10 Payable for securities lending		
	24.11 Capital notes \$		426,183
	Total liabilities excluding Separate Accounts business (Lines 1 to 25)	, -	115,268,064
	From Separate Accounts Statement		
	Total liabilities (Lines 26 and 27)		115,268,064
30.	Preferred capital stock		0
	Aggregate write-ins for other than special surplus funds		
33.	Gross paid in and contributed surplus	132,467,887	132,467,887
	Aggregate write-ins for special surplus funds		
36.	Less treasury stock, at cost:		
	36.1		
	Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)		14,309,990
	Totals of Lines 29, 30 and 37	16,835,966	
	Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) DETAILS OF WRITE-INS	128, 136, 651	132,078,054
2501.	Unclaimed funds		
2502. 2503.			
	Summary of remaining write-ins for Line 25 from overflow page		
2599.	Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	427,143	426, 183
3101. 3102.			
3103.			
	Summary of remaining write-ins for Line 31 from overflow page	0 n	0 0
	Totals (Lines 3101 tillough 3103 plus 3190)(Line 31 above)		
	Summary of remaining write-ins for Line 34 from overflow page		
	Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)	0	0

SUMMARY OF OPERATIONS

		1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
1. 2.	Premiums and annuity considerations for life and accident and health contracts		, ,	4 , 545 , 144
3.	Net investment income	2,575,337	2,621,349	3,607,960
	Amortization of Interest Maintenance Reserve (IMR)			
5. 6.	Separate Accounts net gain from operations excluding unrealized gains or losses			
7.	Reserve adjustments on reinsurance ceded			
8.	Miscellaneous Income:			
	8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts			
	8.2 Charges and fees for deposit-type contracts			
	8.3 Aggregate write-ins for miscellaneous income	0	0	0
9. 10.	Totals (Lines 1 to 8.3)	6,593,313	6,758,276	8,890,708
	Matured endowments (excluding guaranteed annual pure endowments)	1,009	4,702,028	4,400
12.	Annuity benefits	1,033,778	569,793	491,214
13.	Disability benefits and benefits under accident and health contracts			
14. 15.	Surrender benefits and withdrawals for life contracts			
16.	Group conversions			
	Interest and adjustments on contract or deposit-type contract funds			
18. 19.	Payments on supplementary contracts with life contingencies	(2,514,380)	(1,439,153)	(1,643,586)
	Totals (Lines 10 to 19)	4,874,178		
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct	149 047	154,845	200,215
22.	business only)		,	200,213
23.	General insurance expenses and fraternal expenses	999,078	901,940	1, 165,780
24.	Insurance taxes, licenses and fees, excluding federal income taxes	250,046	265,336	207, 162
	Increase in loading on deterred and uncollected premiums Net transfers to or (from) Separate Accounts net of reinsurance			
	Aggregate write-ins for deductions	303,433	548,394	748,500
28.	Totals (Lines 20 to 27)	6,573,938	6,869,760	7,967,744
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	19 375	(111,484)	922 964
30.	Dividends to policyholders and refunds to members	11,646	16,382	21,285
31.	Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	7 700	(107,066)	001 670
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	(194,721)	(185,810)	
33.	Net gain from operations after dividends to policyholders, refunds to members and federal income	, , ,	, , ,	, , ,
34.	taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	202,450	57,944	953,265
34.	gains tax of \$			
	transferred to the IMR)	(2,375)	(484,809)	(490,076)
35.	Net income (Line 33 plus Line 34)	200,075	(426,865)	463,189
36.	CAPITAL AND SURPLUS ACCOUNT Capital and surplus, December 31, prior year	16,809,990	16,111,994	16,111,994
37.	Net income (Line 35)		(426,865)	
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$			
39. 40.	Change in net unrealized foreign exchange capital gain (loss)			
	Change in nonadmitted assets			
42.	Change in liability for reinsurance in unauthorized and certified companies			
43. 44.	Change in reserve on account of change in valuation basis, (increase) or decrease			220 840
44. 45.	Change in treasury stock		· ·	
46.	Surplus (contributed to) withdrawn from Separate Accounts during period			
47.	Other changes in surplus in Separate Accounts Statement			
48. 49.	Cumulative effect of changes in accounting principles			
	Capital changes:			
	50.1 Paid in			
	50.2 Transferred from surplus (Stock Dividend)			
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		0	0
	Aggregate write-ins for gains and losses in surplus	(50,038) 25,976	(180,945)	697,996
	Capital and surplus, as of statement date (Lines 36 + 54)	16,835,966	15,931,049	16,809,990
	DETAILS OF WRITE-INS			
08.398.	Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0
08.399.	Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above) Reinsurance administration agreement expense	303 433	549 204	749 500
	Heinsurance administration agreement expense			
2703.				
	Summary of remaining write-ins for Line 27 from overflow page			
	Totals (Lines 2701 through 2703 plus 2798)(Line 27 above) Correction of error, net of tax	303,433	548,394	748,500
	ourrection of error, net of tax			
	Cumman of complicing with its fart in 52 from quality and			
	Summary of remaining write-ins for Line 53 from overflow page	(50.038)	0	00
JJJJ.	rotato (Enteo odo i titroughi dodo piuo dodo)(Ente do abuve)	(50,050)	U	U

	CASH FLOW			
		1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
	Cash from Operations			
1.	Premiums collected net of reinsurance	3,544,586	3,725,340	4,772,297
2.	Net investment income	2,746,225	2,781,679	3,299,824
3.	Miscellaneous income	341,814	351,153	440,663
4.	Total (Lines 1 to 3)	6,632,625	6,858,172	8,512,784
5.	Benefit and loss related payments	7,568,538	7,076,356	8,884,620
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	0	0	0
7.	Commissions, expenses paid and aggregate write-ins for deductions	1,711,292	1,877,441	2,476,405
8.	Dividends paid to policyholders	3,651	4,293	6,032
9.	Federal and foreign income taxes paid (recovered) net of \$	474 004	(05, 070)	105 000
	gains (losses)	174,801	(85,370)	165,228
10.	Total (Lines 5 through 9)	9,458,282	8,872,720	11,532,285
11.	Net cash from operations (Line 4 minus Line 10)	(2,825,657)	(2,014,548)	(3,019,501)
	Cash from Investments			
12.	Proceeds from investments sold, matured or repaid:			
	12.1 Bonds	4,775,061	10,339,944	16,416,997
	12.2 Stocks			
	12.3 Mortgage loans			
	12.4 Real estate			
	12.5 Other invested assets			
	12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	0	0	450
	12.7 Miscellaneous proceeds	0	0	0
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	4,775,061	10,339,944	16,417,447
13.	Cost of investments acquired (long-term only):			
	13.1 Bonds	3,035,743	16,875,068	16,875,068
	13.2 Stocks			
	13.3 Mortgage loans			0
	13.4 Real estate	0	0	0
	13.5 Other invested assets	0	0	0
	13.6 Miscellaneous applications	25,256	(138,516)	(4,982)
	13.7 Total investments acquired (Lines 13.1 to 13.6)	3,060,999	16,736,552	16,870,086
14.	Net increase (or decrease) in contract loans and premium notes	(358,374)	(190,258)	(161,775)
15.	Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	2,072,436	(6,206,350)	(290,864)
	Cash from Financing and Miscellaneous Sources			
16.	Cash provided (applied):			
	16.1 Surplus notes, capital notes	0	0	0
	16.2 Capital and paid in surplus, less treasury stock	0	0	0
	16.3 Borrowed funds	0	0	0
	16.4 Net deposits on deposit-type contracts and other insurance liabilities	(272,487)	(244,362)	(285,312)
	16.5 Dividends to stockholders	0	0	0
	16.6 Other cash provided (applied)	(1,093,911)	(373,014)	(515, 127)
17.	Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	(1,366,398)	(617,376)	(800,439)
	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).	(2 110 610)	(8 838 274)	(<u>/</u> 110 80/
19.	Cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17).	(2,118,018)	(0,000,214)	(4,110,004)
18.	19.1 Beginning of year	10 424 003	14 524 807	14 534 807
	19.2 End of period (Line 18 plus Line 19.1)	8,304,474	5,696,623	10,424,093
	19.2 Lita of period (Litte To plus Litte 19.1)	0,004,474	3,030,023	10,424,033

Note: Supplemental disclosures of cash flow information for non-cash transactions:		
	·	

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

		1	2	3
		Current Year	Prior Year	Prior Year Ended
		To Date	To Date	December 31
1.	Individual life	7,935,612	8,215,822	10,769,304
2.	Group life			0
3.	Individual annuities	73,160	79,292	85,367
4.	Group annuities			0
5.	Accident & health	47,600	49,397	65,369
6.	Fraternal			0
7.	Other lines of business		0	0
8.	Subtotal (Lines 1 through 7)	8,056,372	8,344,511	10,920,040
9.	Deposit-type contracts	0	0	0
10.	Total (Lines 8 and 9)	8,056,372	8,344,511	10,920,040

Note 1 - Summary of Significant Accounting Policies

A. Accounting Practices

The financial statements of Manhattan National Life Insurance Company (the "Company") are presented on the basis of accounting practices prescribed or permitted by the Ohio Department of Insurance.

The Ohio Department of Insurance recognizes only statutory accounting practices prescribed or permitted by the State of Ohio for determining and reporting the financial condition and results of operations of an insurance company, for determining its solvency under the Ohio Insurance Law. The National Association of Insurance Commissioners' ("NAIC") Accounting Practices and Procedures manual has been adopted as a component of prescribed or permitted practices by the State of Ohio. The Company has no prescribed or permitted practices that would result in differences between NAIC Statutory Accounting Principles ("NAIC SAP") and the State of Ohio basis, as shown below:

Net Income	Septe	mber 30, 2024	Dece	mber 31, 2023
(1) State basis	\$	200,075	\$	463,189
(2) State prescribed practices that increase/(decrease) NAIC SAP		-		-
(3) State permitted practices that increase/(decrease) NAIC SAP		-		-
(4) NAIC SAP	\$	200,075	\$	463,189
Surplus				
(5) State basis	\$	16,835,966	\$	16,809,990
(6) State prescribed practices that increase/(decrease) NAIC SAP		-		-
(7) State permitted practices that increase/(decrease) NAIC SAP		-		-
(8) NAIC SAP	\$	16,835,966	\$	16,809,990

B, C & D - No significant changes.

Note 2 - Accounting Changes and Corrections of Errors

The Company recorded a correction of error related to prior years, net of tax, which resulted in a decrease of statutory capital and surplus of \$50,038. The correction of error resulted in adjustments to investment activity related to prior years.

Note 3 - Business Combinations and Goodwill

Not applicable.

Note 4 - Discontinued Operations

Not applicable.

Note 5 - Investments

A, B & C – No significant changes.

- D. Loan-Backed Securities
 - (1) The Company uses dealer-modeled prepayment assumptions for mortgage-backed and asset-backed securities at the date of purchase to determine the effective yields; significant changes in estimated cash flows from the original purchase assumptions are accounted for on a prospective basis.
 - (2) The Company does not currently hold any aggregate loan-backed securities with a recognized other-than-temporary impairment ("OTTI") in which the Company has the intent to sell or the inability or lack of intent to retain the investment in the security for a period of time to recover the amortized cost basis.
 - (3) The following table shows each security with a credit-related OTTI charge recognized during the period:

		Present Value	OTTI Charge			
	Amortized Cost	of Projected	Recognized in	Amortized Cost	Fair Value at	Date
CUSIP	Before OTTI	Cash Flows	Income Statement	After OTTI	Time of OTTI	Reported
40432BA72	131 751	105.036	26 715	105.036	101 670	0/30/2024

- (4) The following table shows all loan-backed securities with an unrealized loss:
 - a. The aggregate amount of unrealized losses:

1. Less than 12 months \$ - 2. 12 months or longer 44,949

b. The aggregate related fair value of securities with unrealized losses:

1. Less than 12 months \$ - 2. 12 months or longer \$ 360,045

- (5) Based on cash flow projections received from independent sources (which reflect loan to collateral values, subordination, vintage and geographic concentration), implied cash flows inherent in security ratings and analysis of historical payment data, management believes that the Company will recover its cost basis in all securities with unrealized losses at September 30, 2024. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.
- E. Dollar Repurchase Agreements and/or Securities Lending Transactions Not applicable.
- F. Repurchase Agreements Transactions Accounted for as Secured Borrowing Not applicable.
- G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing Not applicable.
- H. Repurchase Agreements Transactions Accounted for as a Sale Not applicable.
- I. Reverse Repurchase Agreements Transactions Accounted for as a Sale Not applicable.

- J. Real Estate Not applicable.
- K. Low Income Housing Tax Credits Not applicable.
- L. Restricted Assets No significant change.
- M. Working Capital Finance Investments Not applicable.
- N. Offsetting and Netting of Assets and Liabilities Not applicable.
- O. 5GI Securities Not applicable.
- P. Short Sales Not Applicable.
- Q. Prepayment Penalty and Acceleration Fees

	Gene	ral Account	Separa	te Account
(1) Number of CUSIPS		1		0
(2) Aggregate amount of investment income	\$	25,256	\$	-

R. Share of Cash Pool by Asset Type - Not applicable.

Note 6 - Joint Ventures, Partnerships and Limited Liability Companies

Not applicable.

Note 7 - Investment Income

No significant change.

Note 8 - Derivative Instruments

Not applicable.

Note 9 - Income Taxes

No significant change.

Note 10 - Information Concerning Parent, Subsidiaries, Affiliates and Other Related Parties

A.,B. & C.

The Company is a wholly-owned subsidiary of Manhattan National Holding, LLC ("MNH"). 100% of the Company's outstanding common stock is directly owned by MNH. The Company's common stock was contributed to MNH on September 25, 2008, from MassMutual Ascend Life Insurance Company ("MMALIC"). MNH is a wholly-owned subsidiary of MMALIC. MMALIC is wholly-owned subsidiary of Glidepath Holdings, Inc., a financial services holding company wholly-owned by Massachusetts Mutual Life Insurance Company. See Schedule Y, Part 1, Organizational Chart.

During 2024 the Company paid (received) federal income tax payments in cash to (from) MMALIC:

04/16/2024	\$ 199,600
04/16/2024	\$ (15,500)
06/17/2024	\$ (87,800)
09/23/2024	\$ 65,200

- D. The Company reported \$0 due from and \$112,180 due to the parent and affiliated companies. The terms of the agreement require that these amounts are settled within 90 days.
- E. Management or service contracts and all cost sharing arrangements including the Company:
 - (1) The Company has an agreement with Barings (an affiliate) which provides investment advisory services to the Company.
 - (2) Certain administrative, management, accounting, data processing, collection, and investment services are provided under agreements between the Company and affiliates at charges not unfavorable to the Company or the affiliate.
- F. The Company has no material guarantees or undertakings for the benefit of an affiliate.
- G. The Company's outstanding shares are 100% owned by MNH.
- H. The Company does not own shares of any upstream intermediate entity or its ultimate parent.
- I. The Company has no investment in a subsidiary.
- J. The Company did not recognize any impairment or write down for its investments in subsidiary, controlled or affiliated companies during the statement period.
- K. The Company has no investment in a foreign insurance subsidiary.
- L. The Company does not hold an investment in a downstream non-insurance holding company.
- M. Valuation of Subsidiary, Controlled and Affiliated Entities (excluding U.S. Insurance Entities) Not applicable.
- N. The Company has no investments in insurance subsidiary, controlled, or affiliated entities.
- O. Subsidiary, Controlled, and Affiliated Entities Loss Tracking Not applicable.

Note 11 - Debt

Not applicable.

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

A., B., C. & D.

The Company did not participate in a defined benefit plan.

E. Defined Contribution Plan

The Company participates in the retirement plans of MMALIC. MMALIC sponsors funded (qualified 401(k) thrift savings) and unfunded (nonqualified deferred compensation thrift savings) defined contribution plans for its employees and retirees. The qualified 401(k) thrift savings plan's net assets available for benefits were \$74,592,356 as of September 30, 2024 and \$58,683,564 as of December 31, 2023. The Company matches a percentage of employee contributions to the qualified 401(k) thrift savings plan. The Company's total matching thrift savings contributions included in general insurance expenses were \$26,730 for the nine months ended September 30, 2024 and \$33,474 for the year ended December 31, 2023.

- F. The Company did not participate in multiemployer plans.
- G. The Company did not participate in consolidated or holding company plans.
- H. The Company does not accrue for postemployment benefits and compensated absences.
- I. The Company does not apply for a subsidy under the Medicare Part D under the Medicare Modernization Act.

Note 13 - Capital and Surplus, Shareholders' Dividend Restrictions and Quasi-Reorganizations

No significant change.

Note 14 - Contingencies

No significant change.

Note 15 - Leases

Not applicable.

Note 16 - Information About Financial Instruments With Off-Balance Sheet Risk and Financial Instruments With Concentrations of Credit Risk

Not applicable.

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

The Company has no reportable transactions.

Note 18 - Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans

Not applicable.

Note 19 - Direct Premium Written/Produced by Managing General Agents/Third Party Administrators

Not applicable.

Note 20 - Fair Value

Α

- (1) The Company does not have any assets or liabilities measured at fair value or net asset value ("NAV").
- (2) The Company does not have any Level 3 securities carried at fair value.
- (3) Fair Value Recognition of Transfers between Levels

The Company recognizes and records the transfer of securities into and out of Level 3 due to changes in availability of market observable inputs. There were no Level 3 transfers during the reporting period.

(4) Inputs and Techniques Used in Estimating Fair Value

Level 1 - Quoted prices for identical assets or liabilities in active markets (markets in which transactions occur with sufficient frequency and volume to provide pricing information on an ongoing basis). The Company's Level 1 financial instruments consist primarily of publicly-traded equity securities for which quoted market prices in active markets are available.

Level 2 - Quoted prices for similar instruments in active markets; quoted prices for identical or similar assets or liabilities in inactive markets (markets in which there are few transactions, the prices are not current, price quotations vary substantially over time or among market makers, or in which little information is released publicly); and valuations based on other significant inputs that are observable in active markets. Level 2 inputs include benchmark yields, reported trades, corroborated broker/dealer quotes, issuer spreads and benchmark securities. When non-binding broker quotes can be corroborated by comparison to similar securities priced using observable inputs, they are classified as Level 2.

Level 3 - Valuations derived from market valuation techniques generally consistent with those used to estimate the fair value of Level 2 financial instruments in which one or more significant inputs are unobservable or when the market for a security exhibits significantly less liquidity relative to markets supporting Level 2 fair value measurements. The unobservable inputs may include management's own assumptions about the assumptions market participants would use based on the best information available in the circumstances. The Company does not have any Level 3 assets or liabilities carried at fair value at September 30, 2024.

The Company's investment manager, Barings LLC ("Barings") is responsible for the valuation process and uses data from outside sources (including nationally recognized pricing services and broker/dealers) in establishing fair value. Valuation techniques utilized by pricing services and prices obtained from external sources are reviewed by Barings internal investment professionals who are familiar with the securities being priced and the markets in which they trade to ensure the fair value determination is representative of an exit price. To validate the appropriateness of the prices obtained, the investment manager considers widely published indices (as benchmarks), recent trades, changes in interest rates, general economic conditions and the credit quality of the specific issuers. In addition, Barings communicates directly with the pricing service regarding the methods and assumptions used in pricing, including verifying, on a test basis, the inputs used by the service to value specific securities.

- (5) Derivative Assets and Liabilities Not applicable.
- B. The Company has no additional fair value disclosures.
- C. The Company has categorized all the financial assets in the financial statements into the three-level fair value hierarchy as reflected in the following table. See item (4) above for a discussion of each of these three levels.

Not

Type of Financial Instrument	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Practicable (Carrying Value)
Financial Assets:	_						
Bonds:							
U.S. government and agencies	\$ 1,674,811	\$ 1,704,685	\$ -	\$ 1,674,811	\$ -	\$ -	\$ -
States, territories and possessions	4,256,560	2,970,957	-	4,256,560	-	-	-
Special revenue	9,470,669	9,191,901	-	9,470,669	-	-	-
Industrial and miscellaneous	95,789,823	96,735,792	-	95,789,823	-	-	-
Total bonds	\$111,191,863	\$110,603,335	\$ -	\$111,191,863	\$ -	\$ -	\$ -
Cash and cash equivalents	8,304,474	8,304,474	8,304,474	-	-	-	-
Policy loans	3,888,368	3,888,368	-	-	3,888,368	-	-
Total financial assets	\$123,384,705	\$122,796,177	\$ 8,304,474	\$111,191,863	\$ 3,888,368	\$ -	\$ -

- D. Not Practicable to Estimate Fair Value The Company has no financial instruments that fall under this classification.
- E. NAV Practical Expedient Investments The Company has no financial investments that fall under this classification.

Note 21 - Other Items

No significant change.

Note 22 - Events Subsequent/Other Items of Note

No significant change.

Note 23 - Reinsurance

No significant change.

Note 24 - Retrospectively Rated Contracts & Contracts Subject to Redetermination

Not applicable.

Note 25 - Change in Incurred Losses and Loss Adjustment Expenses

The Company had no changes in the provision for incurred loss or loss adjustment expenses attributable to insured events of prior years.

Note 26 - Intercompany Pooling Arrangements

Not applicable.

Note 27 - Structured Settlements

Not applicable.

Note 28 - Health Care Receivables

Not applicable.

Note 29 - Participating Policies

No significant change.

Note 30 - Premium Deficiency Reserves

Not applicable.

Note 31 - Reserves for Life Contracts and Annuity Contracts

No significant change.

Note 32 - Analysis of Annuity Actuarial Reserves and Deposit-Type Liabilities by Withdrawal Characteristics

No significant change.

Note 33 - Analysis of Life Actuarial Reserves by Withdrawal Characteristics

No significant change.

Note 34 - Premiums and Annuity Considerations Deferred and Uncollected

No significant change.

Note 35 - Separate Accounts

Not applicable.

Note 36 - Loss/Claim Adjustment Expenses

Not applicable.

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								No []
2.1								
2.2	If yes, date of change:							
3.1	Is the reporting entity a member of an Insurance Holding Company S is an insurer?						Yes [X]	No []
3.2	Have there been any substantial changes in the organizational chart	since the prior q	uarter end?				Yes [No [X]
3.3	If the response to 3.2 is yes, provide a brief description of those char	-						
3.4	Is the reporting entity publicly traded or a member of a publicly traded	d group?					Yes [No [X]
3.5	If the response to 3.4 is yes, provide the CIK (Central Index Key) cod	de issued by the	SEC for the entity/group.					
4.1	Has the reporting entity been a party to a merger or consolidation du	ring the period co	overed by this statement	?			Yes [No [X]
4.2	If yes, provide the name of the entity, NAIC Company Code, and state ceased to exist as a result of the merger or consolidation.	te of domicile (us	e two letter state abbrev	iation) for any entity	that has			
	1 Name of Entity		2 NAIC Company Code	3 State of Domicile	:			
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.	es regarding the t	erms of the agreement of	or principals involved	i?'] No [2	X] N/A []
6.1	State as of what date the latest financial examination of the reporting						12/3	1/2021
6.2	State the as of date that the latest financial examination report becaudate should be the date of the examined balance sheet and not the						12/3	1/2021
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).	e examination rep	oort and not the date of t	the examination (bal	ance she	et	05/2	3/2023
6.4	By what department or departments? Ohio Department of Insurance							
6.5	Have all financial statement adjustments within the latest financial estatement filed with Departments?	xamination report	been accounted for in a	subsequent financi	al	res [] No [] N/A [X]
6.6	. Have all of the recommendations within the latest financial examinat	ion report been c	omplied with?			es [] No [1 N/A [X 1
7.1	Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	r registrations (inc	cluding corporate registr	ation, if applicable) s	suspende	d or		No [X]
7.2	If yes, give full information:							
8.1	Is the company a subsidiary of a bank holding company regulated by						Yes [No [X]
8.2	If response to 8.1 is yes, please identify the name of the bank holdin							
8.3	Is the company affiliated with one or more banks, thrifts or securities	firms?					Yes [X]	No []
8.4	If response to 8.3 is yes, please provide below the names and locatic regulatory services agency [i.e. the Federal Reserve Board (FRB), the Insurance Corporation (FDIC) and the Securities Exchange Commission (FDIC) and the Securities (FDIC) and the	ne Office of the C	omptroller of the Curren	cy (OCC), the Feder	al Depos			
	1 Affiliate Name	L	2 .ocation (City, State)	3 FRB	4 OCC	5 FDIC	6 SEC	
	Barings LLC Baring International Investment Limited					N0	YES YES	
	Barings Securities LLC	Charlotte, NC			NO			
	MM Ascend Life Investor Services LLC				NO		YES	
	MML Distributors LLC		A					
	MML Investment Advisors LLC	Springfield, M	A	NU N∩		NO	YES YES	
	MML Strategic Distributors LLC		٠ ١		NO		YES	
	The MassMutual Trust Company OCC							
	Eleurich Eineneiel IIC	Now Vork NV		NO	NO.	NO.	VEC	

GENERAL INTERROGATORIES

9.1 9.11	Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controlle similar functions) of the reporting entity subject to a code of ethics, which includes the following standards?	rsonal and professiona		Yes [X] No []
9.2 9.21	Has the code of ethics for senior managers been amended?			Yes [] No [X]
9.3 9.31	Have any provisions of the code of ethics been waived for any of the specified officers?			Yes [] No [X]
	FINANCIAL			
10.1 10.2	Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement If yes, indicate any amounts receivable from parent included in the Page 2 amount:			
	INVESTMENT			
11.1 11.2	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or of use by another person? (Exclude securities under securities lending agreements.)			Yes [] No [X]
12. 13. 14.1	Amount of real estate and mortgages held in other invested assets in Schedule BA: Amount of real estate and mortgages held in short-term investments: Does the reporting entity have any investments in parent, subsidiaries and affiliates?		\$	
14.2	If yes, please complete the following:	1 Prior Year-End Book/Adjusted Carrying Value		2 Current Quarter Book/Adjusted Carrying Value
14.21	Bonds	\$	0	\$
	Preferred Stock			\$
	Common Stock Short Torm Investments			\$
	Short-Term Investments			\$ \$
	All Other			\$
	Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26)			\$0
14.28	Total Investment in Parent included in Lines 14.21 to 14.26 above	.\$		\$
15.1 15.2	Has the reporting entity entered into any hedging transactions reported on Schedule DB?		Yes [Yes [] No [X]] No [] N/A [X]
16.	For the reporting entity's security lending program, state the amount of the following as of the current statement da			
	16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2			
	16.2 Total book/adjusted carrying value of reinvested collateral assets reported on Schedule DL, I	Parts 1 and 2	\$	30
	16.3 Total payable for securities lending reported on the liability page		\$	30

GENERAL INTERROGATORIES

Outsourcing of Critical Functions, Custodial or Safekeeping Agreements of the NAIC Financial Condition Examiners Handbook?							
	Name of Cust			Custodian Ad			
Bank of New York N	ellon		1 Wall Street,	New York, NY 10286			
or all agreements t		ith the requirements of the NAIC	C Financial Conditi	ion Examiners Handbook,	provide the name,		
1 Nam		2 Location(s)		3 Complete Exp	alanation(s)		
	0(0)	Location(o)		Complete Exp	manation(0)		
	y changes, including nation relating there	name changes, in the custodial to:	ın(s) identified in 1	7.1 during the current qua	rter?	Yes [] No
1 Old Cus		2 New Custodian		3 f Change	4 Reason		
	otodiari	Trow Guotodian	Date of	Terrange	reacon		
make investment de	cisions on behalf of	vestment advisors, investment r the reporting entity. For assets to ment accounts"; "handle sect	that are managed				
	1 Name of Firm	or Individual	2 Affiliatio	on.			
•			A				
		d in the table for Question 17.5,			reporting entity (i.e.		
		more than 10% of the reporting				Yes	[] No
		with the reporting entity (i.e. details taggregate to more than 50% o				Yes	[] No
on those form							
or those firms or in able below.	dividuals listed in the	e table for 17.5 with an affiliation	n code of "A" (affili	ated) or "U" (unaffiliated),	provide the information for	the	
	dividuals listed in the	e table for 17.5 with an affiliation	n code of "A" (affili	ated) or "U" (unaffiliated),	provide the information for		5
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able below. 1 Central Registratio	n	2	`	3 Legal Entity Identifier (LEI	4) Registered With	N	Investme //anagem Agreeme (IMA) Fil
able below. 1 Central Registratio	n r . Barings LLC		AI	3 Legal Entity Identifier (LEI NDKRHQKPRRG4Q2KLR05	Registered With SEC	N	Investme //anagem Agreeme
able below. 1 Central Registratio Depository Numbe 106006	n r	2 Name of Firm or Individual	Al	3 Legal Entity Identifier (LEI NDKRHQKPRRG4Q2KLR05) Registered With	D	Investme //anagem Agreeme (IMA) Fil
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GENERAL INTERROGATORIES

PART 2 - LIFE AND ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES

Life and	Accident Health Companies/Fraternal Benefit Societies: Report the statement value of mortgage loans at the end of this reporting period for the following categories:	1
	1.1 Long-Term Mortgages In Good Standing	Amount
	1.11 Farm Mortgages	\$
	1.12 Residential Mortgages	\$
	1.13 Commercial Mortgages	\$
	1.14 Total Mortgages in Good Standing	\$0
	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	.\$0
	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	\$0
1.5	Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)	\$0
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	\$0
2.	Operating Percentages:	
	2.1 A&H loss percent	0.000 %
	2.2 A&H cost containment percent	%
	2.3 A&H expense percent excluding cost containment expenses	0.000 %
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	\$
4.	Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states?	Yes [X] No []
4.1	If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity?	Yes [] No []
Fratern 5.1	al Benefit Societies Only: In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done?	Yes [] No [] N/A []
5.2	If no, explain:	
6.1	Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus?	
6.2	If yes, what is the date(s) of the original lien and the total outstanding balance of liens that remain in surplus?	

Date	Outstanding Lien Amount

SCHEDULE S - CEDED REINSURANCE

OI .	A 11 A 1	D :			,		
Showing	All New	Reinsurance	reaties -	Current Y	ear	to Date	

Showing All New Reinsurance Treaties - Current Year to Date									
1 NAIC	2	3	4	5	6 Type of Reinsurance	7	8	9 Certified Reinsurer	10 Effective Date of Certified
Company Code	ID Number	Effective Date	Name of Reinsurer	Domiciliary Jurisdiction	Reinsurance Ceded	Business Ceded	Type of Reinsurer	Rating (1 through 6)	Reinsurer Rating
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SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS Current Year To Date - Allocated by States and Territories

		Current	ear	To Date - Alloca	•		iness Only		
		1		Life Co	ntracts 3	4 Accident and	5	6	7
					S	Health Insurance			
		Activ	/e			Premiums, Including Policy,		Total	
	States Ets	Statu	us	Life Insurance	Annuity	Membership	Other	Columns	Deposit-Type Contracts
1.	States, Etc. Alabama	(a)		Premiums 26,404	Considerations 0	and Other Fees	Considerations	2 Through 526.404	Contracts
2.	Alaska A	-		5,256	0	0		5,256	
3.	Arizona A	_		50,427	300	0		50,727	
4. 5.	Arkansas A California C			62,000	0 1.092	0			
5. 6.	Colorado			111,275	092	0		111.275	
7.	Connecticut	-		63,981	0	0		63,981	
8.	Delaware D	_		48,004	0	0		48,004	
9.	District of Columbia	-		2,898	0	0		2,898	
10. 11.	Florida F Georgia G	_		414,696	411 1.900	42,074		457 , 181 226 . 358	
12.	Hawaii H			74,826	0	0		74.826	
13.	Idaho IE			19,753	0	0		19,753	
14.	Illinois IL			222,756	4,803	0		227,559	
15.	Indiana IN			262,172	1,070 0	325		263,567	
16. 17.	Iowa IA Kansas K				3.629	0		96,241	
18.	Kentucky K			70,737	0	0		70,737	
19.	Louisiana L	۸L.		160,444	0	0		160,444	
20.	Maine N			44,818	0	0		44,818	
21.	Maryland			242,979	0 0	0 0		242,979	
22. 23.	Massachusetts Michigan			324,063	3.884	438		328,385	
24.	Minnesota N			473,695	16,400	0		490,095	
25.	Mississippi N	sL.		98,805	480	0		99,285	
26.	Missouri N			244,519	7,621	0		252,140	
27. 28.	Montana N Nebraska N	-		8,854	0 0	0 0		8,854	
28. 29.	Nevada N	-			0	0		70, 182	
30.	New Hampshire N	-		39,095	0	0			
31.	New Jersey N			220,076	0	210		220,286	
32.	New Mexico			12,839	0 0	789 0			
33. 34.	New York	-			300	0		176.497	
35.	North Dakota	-		63,731	00	0		63,731	
36.	Ohio			200,515	135	194		200,844	
37.	Oklahoma C			65,745	0	0		65,745	
38.	Oregon O			50,450	0 0	0		50,450	
39. 40.	Rhode Island R			9,201	0	0		9.201	
41.	South Carolina			125,149	1,170	0		126,319	
42.	South Dakota S	_		11,988	0	0		11,988	
43.	Tennessee T			190,039	0	525		190,564	
44. 45.	Texas T			542,636	450 71	269		543,355	
45. 46.	Vermont V				0	0		17.089	
47.	Virginia V	-		, .	320	0		176,443	
48.	Washington W					0		74,937	
49.	West Virginia W				0 29.125				
50. 51.	Wisconsin Www.www.www.www.www.www.www.www.w			,	0			868,220	
52.	American Samoa A				0	0		0	
53.	Guam G	-			0	0		0	
54.	Puerto Rico P				0	0		0	
55.	U.S. Virgin Islands V				0	0 0		0 0	
56. 57.	Northern Mariana Islands M Canada C					0		0	
58.	Aggregate Other Aliens				0			2,350	0
59.	Subtotal	XX				47,600	0	7,974,539	0
90.	Reporting entity contributions for employee ben		v					0	
91.	plans Dividends or refunds applied to purchase paid-u		^					0	
]	additions and annuities	XXX	X					0	
92.	Dividends or refunds applied to shorten endown		v					0	
93.	or premium paying period Premium or annuity considerations waived under	r							
93.	disability or other contract provisions	xx	X	178,799				178,799	
94.	Aggregate or other amounts not allocable by Sta	ate XXX	X	0	0	0	0	0	0
95.	Totals (Direct Business)				,	47,600	0	, ,	0
96. 97	Plus Reinsurance Assumed Totals (All Business)						0	0 8 , 153 , 339	0
98.	Less Reinsurance Ceded							4,265,964	
99.	Totals (All Business) less Reinsurance Ceded	XXX		3,844,388	40,238	2,749	0	3,887,375	0
1_	DETAILS OF WRITE-INS								
	Other Alien							,	
58002. 58003.									
	Summary of remaining write-ins for Line 58 fron	1							
	overflow page	xx	X	0	0	0	0	0	0
58999.	Totals (Lines 58001 through 58003 plus	100	v	2,350	0	0	0	2,350	0
9401.	58998)(Line 58 above)	XX		2,350		0		2,350	U
9401.				1					
9403.		XX							
9498.	Summary of remaining write-ins for Line 94 from		.,	_	_	_	_	_	_
9490	overflow page		X	. 0	0	0	0	0	0
3499.	94 above)	XXX	X	0	0	0	0	0	0
(a) Active	e Status Counts:			<u> </u>	<u> </u>	<u> </u>	·		

PART 1 – ORGANIZATIONAL CHART

The following entities are general partner level or above of Massachusetts Mutual Life Insurance Company (Parent)

	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 Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Mezzanine Investor III, LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		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 Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV GP, LLC*	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures US IV, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands
MassMutual Ventures Southeast Asia III LLC	None		Delaware
MMV Digital I LLC	None		Cayman Islands

^{*}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.

Counterpointe Sustainable Advisors LLC
CSA Intermediate I Iolidos LLC
CSA Intermediate I Iolidos LLC
Counterpoint Truits Ervices LLC Counterpoint Truits Truits Counterpoint Truits Counterpoint State LLC Counterpoint State Counterpoint State LLC Counterpoint Energy Solutions (CA) ILLC Counterpoint Energ
CP PACE LLC
Countepointe Tiling Trust
CSA Employee Services Company LLC None Delaware Counterpointe Energy Solutions (LT) LLC None Delaware Counterpointe Energy Solutions (CA) IL LLC 27-0105-64 Delaware Counterpointe Energy Solutions (CA) IL LLC None Delaware Counterpointe Energy Solutions (IL) LLC None Delaware Loop-Counterpointe Energy Solutions (IL) LLC None Delaware Counterpointe Energy Solutions (IL) LLC None Delaware Jefferies ML Ending LLC None Delaware Jefferies ML Ending LLC None Delaware Gereen SPE LLC None Delaware Apex Credit Partners LLC None Delaware Jefferies ML Ending LLC None Delaware Jefferies Credit Management LLC None Delaware
Counterpointe Sustainable Real Estate II LLC None Delaware Counterpointe Energy Solutions (CA) II LLC Y-0 105644 Delaware Counterpointe Energy Solutions (II) II LC None Delaware Counterpointe Energy Solutions (II) LLC None Delaware Counterpointe Energy Solutions (II) LLC None Delaware Counterpointe Energy Solutions (II) LLC None Delaware Counterpointe Energy Services LLC None Delaware Counterpointe Energy Services LLC None Delaware Jefferies Finance LLC 27-0105644 Delaware Jefferies Finance LLC 27-0105644 Delaware Jefferies Finance LLC None Delaware Jefferies Credit Partners LLC None Delaware Jefferies Credit Partners LLC None Delaware Jefferies Credit Imanagement LLC
Counterpointe Energy Solutions (LA) ILLC
Counterpointe Energy Solutions (CA) II LLC
Counterpointe Energy Solutions (IL) ILLC
Counterpointe Energy Solutions (IL) LLC
Loop-Counterpointe PACE LLC
Counterpointe Energy Services LLC None Delaware CSA Incentive Holdeo LLC 27-0105644 Delaware Jefferies Finance LLC 27-0105644 Delaware JFIN GP Adviser LLC None Delaware Jefferies MM Lending LLC None Delaware Green SPE LLC None Delaware Apex Credit Partners LLC None Delaware Apex GP I LLC None Delaware Apex Securitized Income Fund LP None Delaware Jefferies Credit Management LLC None Delaware Jefferies Credit Indiagement LLC None Delaware JCM H-2 Credit Fund GP LLC None Delaware JCP Direct Lending CLO 2022 LLC None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF None Delaware Jefferies Credit Management Holdings LLC None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF <t< td=""></t<>
Jefferies Finance LLC
JFIN GP Adviser LLC Jefferies MM Lending LLC None Delaware Green SPE LLC Apex Credit Partners LLC Apex GP I LLC Apex Securitized Income Fund LP Apex Securitized Income Fund LP None Delaware Apex Securitized Income Fund LP None Delaware Apex Securitized Income Fund LP None Delaware Jefferies Credit Partners LLC None Delaware Jefferies Credit Management LLC None Delaware JCM GP I LLC None Delaware JCM GP I LLC None Delaware JCM H-2 Credit Fund GP LLC None Delaware JCP Direct Lending CLO 2022 LLC None Delaware Jefferies Scredit Management Holdings LLC None Delaware Jefferies Gredit Management Holdings LLC None Delaware Jefferies Credit Management Holdings LLC None Delaware Jefferies Scredit Management Holdings LLC None Delaware JEM GP LLC None Delaware
Jefferies MM Lending LLC Green SPE LLC None Apex Credit Partners LLC Apex GP I LLC Apex GP I LLC Apex GP I LLC Apex GP I LLC Apex Securitized Income Fund LP Apex Securitized Income Fund LP Apex Gredit Partners LLC Apex GP I LLC Apex Securitized Income Fund LP Apex Gredit Partners LLC Apex GP I LLC Apex Securitized Income Fund LP Jefferies Credit Management LLC Jefferies Gredit Management LLC JCM GP I LLC None JCM GP I LLC None JCM H-2 Credit Fund GP LLC None JCP Direct Lending CLO 2022 LLC None Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Direct Lending Europe SCSp SICAV-RAIF JEfferies Direct Lending Fund CLP JFAM GP LLC JFAM GP LP JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies Direct Lending SLC None Delaware
Green SPE LLC Apex Credit Partners LLC Apex GP I LLC Apex Securitized Income Fund LP Idefferies Credit Partners LLC None Delaware Jefferies Credit Management LLC None JCM GP I LLC None JCM GP I LLC None JCM H-2 Credit Fund GP LLC None JCP Direct Lending CLO 2022 LLC None Jefferies Direct Lending Europe SCSp SICAV-RAIF None Jefferies Credit Management Holdings LLC None Jefferies Credit Management Holdings LLC None JEffer (Stredit Management Holdings LLC None JEffer (Stredit Management Holdings LLC None JFAM GP LLC None JFAM GP LLC None Delaware JFAM GP LLC None Delaware JFAM GP LP None Delaware Jefferies Direct Lending Fund C LP None Delaware Jefferies Direct Lending Fund C LP Jefferies Dir
Apex Credit Partners LLC Apex GP I LLC Apex GP I LLC Apex Securitized Income Fund LP Apex Securitized Income Fund LP Jefferies Credit Partners LLC None Delaware Jefferies Credit Management LLC None Delaware JCM GP I LLC None Delaware JCM H-2 Credit Fund GP LLC None Delaware JCP Direct Lending CLO 2022 LLC None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF Defferies Credit Management Holdings LLC None Delaware JEfferies Credit Management Holdings LLC None Delaware JEfferies Direct Lending Europe S.a.r.I JFAM GP LLC None Delaware JFAM GP LLC None Delaware JFAM GP LLC None Delaware Jefferies Direct Lending Fund C LP None Delaware Delaware
Apex GP I LLC Apex Securitized Income Fund LP Apex Securitized Income Fund LP None Delaware Jefferies Credit Partners LLC None Delaware Jefferies Credit Management LLC None Delaware JCM GP I LLC None Delaware JCM GP I LLC None Delaware JCM H-2 Credit Fund GP LLC None Delaware JCP Direct Lending CLO 2022 LLC None Delaware Jefferies Direct Lending Europe SCSp SICAV-RAIF None Delaware Jefferies Credit Management Holdings LLC None Delaware JDLF GP (Europe) S.a.r.! None Delaware JFAM GP LLC None Delaware JFAM GP LLC None Delaware JFAM GP LC None Delaware JFAM GP LC None Delaware JFAM GP LC None Delaware Jefferies Direct Lending Fund C LP None Delaware
Apex Securitized Income Fund LP Jefferies Credit Partners LLC None Delaware Jefferies Credit Management LLC None Delaware JCM GP I LLC None Delaware JCM H-2 Credit Fund GP LLC None Delaware JCP Direct Lending CLO 2022 LLC None Delaware JCP Direct Lending Europe SCSp SICAV-RAIF None Delaware Jefferies Credit Management Holdings LLC None Delaware JDLF GP (Europe) S.a.r.l None Delaware JDLF GP (Europe) S.a.r.l None Delaware JFAM GP LLC None Delaware Jefferies Direct Lending Fund C LP None Delaware None Delaware None Delaware Delaware None Delaware Delaware Jefferies Direct Lending Fund C LP None Delaware
Jefferies Credit Partners LLC Jefferies Credit Management LLC None JCM GP I LLC None JCM GP I LLC None JCM H-2 Credit Fund GP LLC None JCM H-2 Credit Funding Europe SCSp SICAV-RAIF None Jefferies Direct Lending Europe SCSp SICAV-RAIF None JEfferies Credit Management Holdings LLC None JDLF GP (Europe) S.a.r.I None JEMA GP LLC None JEAM GP LLC None JEAM GP LLC None JEAM GP LLC None Delaware JEFM GP LP JEFM GP LP None Delaware Jefferies Direct Lending Fund C LP JEFM GP LP None Delaware Jefferies DLF C Holdings LLC
Jefferies Credit Management LLC JCM GP I LLC None JCM H-2 Credit Fund GP LLC None JCP Direct Lending CLO 2022 LLC None Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Credit Management Holdings LLC None Jefferies Credit Management Holdings LLC None JDLF GP (Europe) S.a.r.l None JFAM GP LLC None JFAM GP LLC None Jefferies Direct Lending Fund C LP Jefferies DIF C Holdings LLC None Delaware
JCM GP I LLC JCM H-2 Credit Fund GP LLC None JCP Direct Lending CLO 2022 LLC None Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Credit Management Holdings LLC None JDLF GP (Europe) S.a.r.l None JFAM GP LLC JFAM GP LLC JFAM GP LC Jefferies Direct Lending Fund C LP Jefferies Direct Lending Fund C LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Delaware Delaware Delaware Delaware Delaware
JCM H-2 Credit Fund GP LLC JCP Direct Lending CLO 2022 LLC None Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Credit Management Holdings LLC JDLF GP (Europe) S.a.r.l JFAM GP LLC JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Jefferies DLF C Holdings LLC None Delaware None Delaware Delaware Delaware Delaware None Delaware Delaware Delaware Delaware Delaware Delaware Delaware Delaware
JCP Direct Lending CLO 2022 LLC Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Credit Management Holdings LLC JDLF GP (Europe) S.a.r.l JFAM GP LLC JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Jefferies DLF C Holdings LLC None Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF Jefferies Credit Management Holdings LLC None JDLF GP (Europe) S.a.r.l JFAM GP LLC JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Delaware
Jefferies Credit Management Holdings LLC JDLF GP (Europe) S.a.r.l None JFAM GP LLC JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Jefferies DLF C Holdings LLC None Delaware None Delaware Delaware Delaware Delaware Delaware Delaware Delaware Delaware
JDLF GP (Europe) S.a.r.1 JFAM GP LLC JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Jefferies DLF C Holdings LLC None Luxembourg Delaware Delaware None Delaware Delaware Delaware
JFAM GP LLC JFAM GP LLC None None Delaware Delaware Delaware Delaware Delaware Delaware None Delaware Delaware Delaware Delaware Delaware Delaware
JFAM GP LP Jefferies Direct Lending Fund C LP Jefferies DLF C Holdings LLC None Delaware Delaware Delaware
Jefferies Direct Lending Fund C LP None Delaware Jefferies DLF C Holdings LLC None Delaware
Jefferies DLF C Holdings LLC None Delaware
Jefferies Direct Lending Fund C SPE LLC None Delaware
JDLF II GP LLC None Delaware
JDLF II GP LP None Delaware
Jefferies Direct Lending Fund II C LP None Delaware
Jefferies DLF 2 C Holdings LLC None Delaware
Jefferies Direct Lending Fund II C SPE LLC None Delaware
JDLF III GP LLC* None Delaware
JDLF III GP LP* None Delaware
Jefferies Direct Lending Fund III C LP None Delaware
JCP Direct Lending CLO 2023-1 LLC None 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
JCP Direct Lending CLO 2023 Ltd.	None	Jersey Channel Islands
JCP GP I LLC	None	Delaware
Jefferies M Super Private Credit Fund GP LLC	None	Delaware
Jefferies Private Credit BDC Inc.	None	Maryland
JCP Funding 2024 LLC	None	Delaware
Jefferies Senior Lending LLC	None	Delaware
JFIN Revolver Holdings LLC	None	Delaware
JFIN Revolver Holdings II LLC	None	Delaware
JFIN Co-Issuer Corporation	None	Delaware
JFIN Europe GP, S.a.r.l.	None	Luxembourg
Jefferies Finance Europe, S.L.P.	None	Luxembourg
Jefferies Finance Europe, S.C.F. Jefferies Finance Europe, SCSp	None	Luxembourg
Jefferies Finance Business Credit LLC	None	Delaware
JFIN Business Credit Fund I LLC	None	Delaware
JFIN Funding 2021 LLC	None	Delaware
JSPCS MM LLC	None	Delaware
JFIN LC Fund LLC	None	Delaware
JFIN Revolver CLO 2017 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-III Ltd.	None	Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	None	Cayman Islands
JFIN Revolver CLO 2024-I Ltd.	None	Delaware
JFIN Revolver CLO 2022-IV LLC	None	Cayman Islands
JFIN Revolver Fund, L.P.	None	Delaware
JFIN Revolver Funding 2021 Ltd.	None	Delaware
JFIN Revolver Funding 2021-III Ltd.	None	Delaware
JFIN Revolver Funding 2021-IV Ltd.	None	Delaware
JFIN Revolver Funding 2022-I Ltd.	None	Bermuda
JFIN Revolver SPE1 2022 LLC	None	Delaware
JFIN Revolver SPE3 2022 LLC	None	Delaware
JFIN Revolver SPE4 2022 LLC	None	Delaware
JFIN Revolver SPE4 2022 Ltd.	None	Delaware
JCP Private Loan Management GP LLC	None	Delaware
JCP Private Loan Management LP	None	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
IEDI GLO 2012 I. I	N		
JFIN CLO 2012 Ltd. JFIN CLO 2013 Ltd.	None None		Cayman Islands
	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands Cayman Islands
JFIN CLO 2014-II Ltd. JFIN CLO 2015 Ltd.	None		Cayman Islands Cayman Islands
JFIN CLO 2015 Ltd. JFIN CLO 2015-II Ltd.	None		Cayman Islands Cayman Islands
JFIN CLO 2015-11 Etd. JFIN CLO 2016 Ltd.	None		Cayman Islands Cayman Islands
JFIN CLO 2010 Ltd. JFIN CLO 2017 Ltd.	None		Cayman Islands Cayman Islands
JFIN CLO 2017 Etd. JFIN CLO 2017 II Ltd.	None		Cayman Islands
Tomorrow Parent, LLC	None		Delaware
Custom Ecology Holdco, LLC	None		Delaware
Glidepath Holdings Inc.	86-2294635		Delaware
MassMutual Ascend Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717	03312	Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
MM Ascend Life Investor Services, LLC	31-1395344	93001	Ohio
MM Ascend Mortgage Lending LLC	None		Ohio
Manhattan National Holding, LLC	26-3260520		Ohio
Manhattan National Life Insurance Company	45-0252531	67083	Ohio
MassMutual Mortgage Lending LLC	None	07003	Delaware
MM Copper Hill Road LLC	04-1590850		Delaware
MMV CTF I GP LLC	None		Delaware
MassMutual Ventures Climate Technology Fund I LP	None		Delaware
MM Direct Private Investments Holding LLC	None		Delaware
MM Direct Private Investments UK Limited	None		England & Wales
DPI-ACRES Capital LLC	None		Delaware
DPI-ARES Mortgage Lending LLC	None		Delaware
MM Investment Holding	None		Cayman Islands
MMIH Bond Holdings LLC	None		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2017-B	32-0546197		Delaware
MMAF Equipment Finance LLC 2019-A	83-3722640		Delaware
MMAF Equipment Finance LLC 2019-B	None		Delaware
MMAF Equipment Finance LLC 2020–A	None		Delaware
MMAF Equipment Finance LLC 2020–B	None		Delaware
MMAF Equipment Finance LLC 2021-A	None		Delaware
MMAF Equipment Finance LLC 2022–A	None		Delaware
MMAF Equipment Finance LLC 2022–B	None		Delaware
MMAF Equipment Finance LLC 2023-A	None		Delaware
MMAF Equipment Finance LLC 2024-A	None		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	State of Domicile
	reuciai fax ID NAIC CO Code	State of Domiche
MassMutual Holding MSC, Inc.	04-3341767	Massachusetts
MML CM LLC	None	Delaware
Blueprint Income LLC	None	New York
Flourish Holding Company LLC	None	Delaware
Flourish Insurance Agency LLC	None	Delaware
Flourish Digital Assets LLC	None	Delaware
Flourish Financial LLC	None	Delaware
Flourish Technologies LLC	None	Delaware
MML Distributors LLC*	04-3356880	Massachusetts
MML Investment Advisers, LLC	None	Delaware
MML Strategic Distributors, LLC	46-3238013	Delaware
The MassMutual Trust Company, FSB	06-1563535	Connecticut
MML Private Placement Investment Company I, LLC	04-1590850	Delaware
MML Private Equity Fund Investor LLC	04-1590850	Delaware
MM Private Equity Intercontinental LLC	04-1590850	Delaware
Pioneers Gate LLC	45-2738137	Delaware
MassMutual Holding LLC	04-2854319	Delaware
Fern Street LLC	37-1732913	Delaware
Low Carbon Energy Holding	None	United Kingdom
Sleeper Street LLC	None	Delaware
Haven Life Insurance Agency, LLC	46-2252944	Delaware
GASL Holdings LLC	None	Delaware
Barings Asset-Based Income Fund (US) LP*	None	Delaware
Barings Perpetual European Direct Lending Fund	None	Luxembourg
Barings Emerging Generation Fund II	88-0916548	Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017	Delaware
Barings Global Real Assets Fund LP*	82-3867745	Delaware
Barings Global Special Situations Credit Fund 3	None	Luxembourg
MassMutual Assignment Company	06-1597528	North Carolina
MassMutual Capital Partners LLC	04-1590850	Delaware
Marco Hotel LLC	46-4255307	Delaware
HB Naples Golf Owner LLC	45-3623262	Delaware
RB Apartments LLC	82-4411267	Delaware
Intermodal Holding II LLC	None	Delaware
MassMutual Ventures Holding LLC	None	Delaware
Crane Venture Partners LLP	None	United Kingdom
MassMutual Ventures Management LLC	None	Delaware
MassMutual Ventures SEA Management Private Limited	None	Singapore
MMV UK/SEA Limited	None	England & Wales
MassMutual Ventures India Private Limited	None	India
MassMutual Ventures Southeast Asia I LLC	None	Delaware
MassMutual Ventures Southeast Asia II LLC	None	Delaware
MassMutual Ventures UK LLC	None	Delaware
iviassiviutuai veikules un ele	INOILC	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
MassMutual Ventures US I LLC	47-1296410	Delaware
MassMutual Ventures US II LLC	None	Delaware
MassMutual Ventures US III LLC	None	Delaware
MM Catalyst Fund LLC	None	Delaware
MM Catalyst Fund II LLC	None	Delaware
MM Rothesay Holdco US LLC	04-1590850	Delaware
Rothesay Limited	None	United Kingdom
Rothesay Mortgages Limited	None	United Kingdom
Rothesay Life Plc	None	United Kingdom
Rothesay MA No.1 Limited	None	United Kingdom
Rothesay MA No.3 Limited	None	United Kingdom
Rothesay MA No.4 Limited	None	United Kingdom
LT Mortgage Financing Limited	None	United Kingdom
Rothesay Property Partnership 1 LLP	None	United Kingdom
Rothesay Foundation	None	United Kingdom
Rothesay Pensions Management Limited	None	United Kingdom
Rothesay Asset Management UK Limited	None	United Kingdom
Rothesay Asset Management Australia Pty Ltd	None	Australia
Rothesay Asset Management North America LLC	None	Delaware
MML Investors Services, LLC	04-1590850	Massachusetts
MML Insurance Agency, LLC	04-1590850	Massachusetts
MMLISI Financial Alliances, LLC	41-2011634	Delaware
LifeScore Labs, LLC	47-1466022	Massachusetts
MM Asset Management Holding LLC	45-4000072	Delaware
Barings LLC	51-0504477	Delaware
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 Baring Asset Management Korea Limited	None	Korea
Barings Investment Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None	Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707	Taiwan ROC
Barings Singapore Pte. Ltd.	None	Singapore
Barings Japan Limited	98-0236449	Japan
Barings Australia Holding Company Pty Ltd	None	Australia
Barings Australia Pty Ltd	None	Australia
Barings Australia Real Estate Holdings Pty Ltd	None	Australia
Barings Australia Real Estate Pty Ltd	14-0045656	Australia
Barings Australia Property Partners Holdings Pty Ltd	98-0457456	Australia
Barings Australia Asset Management Pty Ltd	None	Australia
Barings Australia Property Partners Pty Ltd	None	Australia
Barings Australia Structured Finance Holdings Pty Ltd	None	Australia
Barings Australia Structured Finance Pty Ltd Barings Australia Structured Finance Pty Ltd	None	Australia
Barings Australia Structured I mance I ty Etd	TONE	/ tustiuiiu

^{*}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.

Gryphon Capital Partners Pty Ltd Gryphon Capital Management Pty Ltd Gryphon Capital Management Pty Ltd Gryphon Capital Investments Pty Ltd None Burings Finance LLC BCF Europe Funding Limited BCF Senior Funding I LLCU BCF Senior Funding I LLCU BCF Senior Funding I Designated Activity Company BCF Senior Funding I Designated Activity Company BCF Senior Funding I LLCU BURING	
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Barings Asset Management Spain SL Baring France SAS None Baring International Fund Managers (Ireland) Limited Baring International Fund Managers (Ireland) Limited Barings GmbH None Barings Italy S.r.I. Barings Sweden AB None Barings Netherlands B.V. Barings Netherlands B.V. Barings (U.K.) Limited Barings Switzerland Sàrl Barings Switzerland Sàrl Barings European Direct Lending 1 GP LLP Barings European Direct Lending 1 GP LLP Barings International Investment Limited 98-0457328 None Spain	
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Barings GmbH None Germany Barings Italy S.r.l. None Italy Barings Sweden AB None Sweden Barings Netherlands B.V. None Netherlands Barings (U.K.) Limited 98-0432153 United Kingdom Barings Switzerland Sàrl None Switzerland Barings Switzerland Sarl None United Kingdom Barings European Direct Lending 1 GP LLP None United Kingdom Baring International Investment Limited 98-0457328 United Kingdom United Kingdom	
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Barings (U.K.) Limited 98-0432153 United Kingdom Barings Switzerland Sàrl None Switzerland Baring Asset Management Limited 98-0241935 United Kingdom Barings European Direct Lending 1 GP LLP None United Kingdom Baring International Investment Limited 98-0457328 United Kingdom	
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Barings European Direct Lending 1 GP LLP None United Kingdom Baring International Investment Limited 98-0457328 United Kingdom	
Baring International Investment Limited 98-0457328 United Kingdom	
Baring Fund Managers Limited 98-0457586 United Kingdom	
BCGSS 2 GP LLP None United Kingdom	
Baring Investment Services Limited 98-0457578 United Kingdom	
Barings Core Fund Feeder I GP S.à.r.l. None Luxembourg	
Barings Investment Fund (LUX) GP S.à r.l. None Luxembourg	
Barings BME GP S.à.r.l. None United Kingdom	
Barings GPC GP S.à.r.l. None Luxembourg None United Windows	
Barings European Core Property Fund GP Sà.r.l None United Kingdom Barings Umbrella Fund (LUX) GP S.à.r.l. None Luxembourg	
GPLF4(S) GP S.à r. 1 None Luxembourg Luxembourg	
PREIF Holdings Limited Partnership None United Kingdom	
BMC Holdings DE LLC None Delaware	
Barings Real Estate Advisers Inc. 04-3238351 Delaware	
Remington L & W Holdings LLC 81-4065378 Delaware	
Aland Royalty GP, LLC None Delaware	
Alaska Future Fund GP, LLC None Delaware	
BAI Funds SLP, LLC None Delaware	
BAI GP, LLC None Delaware	
Baring Asset-Based Income Fund (US) GP, LLC None Delaware	
Barings CMS Fund GP, LLC None 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
Barings Infiniti Fund Management LLC	None	Delaware
Barings New Jersey Emerging Manager Program GP, LLC	None	Delaware
Barings Hotel Opportunity Venture I GP, LLC	None	Delaware
Baring Investment Series LLC	None	Delaware
Barings Emerging Generation Fund GP, LLC	None	Delaware
Barings Emerging Generation Fund GP, LLC Barings Emerging Generation Fund GP II, LLC	None	Delaware
Barings EPLF4 Rated Feeder, L.P.	None	Delaware
Barings ERS PE Emerging Manager III GP, LLC		
	None	Delaware
Barings FC III LLC	None	Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850	Delaware
Barings CLO Investment Partners GP, LLC	None	Delaware
Barings Core Property Fund GP LLC	None	Delaware
Barings DAPPLF1 Rated Feeder, G.P.	None	Delaware
Barings DAPPLF1 Rated Feeder, L.P.	None	Delaware
Barings Direct Lending GP Ltd.	None	Cayman Islands
Barings Diversified Residential Fund GP LLC	None	Delaware
Barings Diversified Residential Fund LP	None	Delaware
Barings Global Energy Infrastructure Advisors, LLC	None	Delaware
Barings Capital Solutions Perpetual Fund GP LLC	None	Delaware
Barings Centre Street CLO Equity Partnership GP, LLC	None	Delaware
Barings Centre Street CLO Equity Partnership LP	None	Delaware
Barings Global Real Assets Fund GP, LLC	None	Delaware
Barings GPSF LLC	None	Delaware
Barings North American Private Loan Fund Management, LLC	None	Delaware
Barings North American Private Loan Fund II Management, LLC	None	Delaware
Barings North American Private Loan Fund III Management, LLC	None	Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None	Delaware
Barings - MM Revolver Fund GP LLC	None	Delaware
Barings Real Estate European Value Add Fund II Feeder LLC	None	Cayman Islands
Barings SEM GP LLC	None	Delaware
BMT RE Debt Fund GP LLC	None	Delaware
Barings Small Business Fund LLC	84-5063008	Delaware
Barings TYIDF2 Rated Feeder GP LLC	None	Delaware
Barings TYIDF2 Rated Feeder, L.P.	None	Delaware
Barings Active Passive Equity Direct EAFE LLC	None	Delaware
BCLF GP LLC	None	Delaware
Benton Street Advisors, Inc.	98-0536233	Cayman Islands
BHOVI Incentive LLC	None	Delaware
BIG Real Estate Fund GP LLC	None	Delaware
BIG Real Estate Incentive I LLC	None	Delaware
BIG Real Estate Incentive II LLC	None	Delaware
BRECS VII GP LLC	None	Delaware
BREDIF GP LLC	None	Delaware
DICEDIT OF LEC	NOILC	Delaware

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	Federal Tax ID NAIC Co Code	State of Domicile
CPF Springing Member, LLC	None	Delaware
CREA-MA Reorganization Trust	None	Delaware
CREF X GP LLC	None	Delaware
Great Lakes III GP, LLC	04-1590850	Delaware
Lake Jackson LLC	None	Delaware
Barings Emerging Markets Blended Fund I GP, LLC	None	Delaware
Barings EPLF4 Rated Feeder GP LLC	None	Delaware
Mezzoo III LLC	41-2280126	Delaware
Mezzco IV LLC	80-0920285	Delaware
Mezzco Australia II LLC	None	Delaware
RECSA-NY GP LLC	None	Delaware
Barings CLO 2022-I	98-1624360	Cayman Island
Barings CLO 2022-II	None	Cayman Island
Amherst Long Term Holdings, LLC	None	Delaware
Enroll Confidently, Inc.	None	Delaware
MassMutual International LLC	04-3313782	Delaware
MassMutual Solutions LLC	None	Delaware
Haven Technologies Asia Limited	None	Hong Kong
Yunfeng Financial Group Limited	None	Hong Kong
MassMutual External Benefits Group LLC	27-3576835	Delaware
MM Vine Street LLC	None	Delaware
Stillings Street LLC	None	Delware
5301 Wisconsin Avenue Associates, LLC	None	District of Columbia
5301 Wisconsin Avenue GP, LLC	None	Delaware
Other Affiliates & Funds:	None	Delaware
100 w. 3rd Street LLC	04-1590850	Delaware
300 South Tryon Hotel LLC	82-2432216	Delaware
300 South Tryon LLC	04-1590850	Delaware
Almack Mezzanine Fund II Unleveraged LP		United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	None 82-3468147	Delaware
Barings Affordable Housing Mortgage Fund I LLC Barings Affordable Housing Mortgage Fund II LLC	61-1902329	Delaware
Barings Affordable Housing Mortgage Fund II LLC Barings Affordable Housing Mortgage Fund III LLC	85-3036663	Delaware
Barings Anordable Housing Mortgage Fund III LLC Barings Construction Lending Fund LP	None	Delaware
Barings Emerging Generation Fund II LP	None	Delaware
Barings Emerging Generation Fund, LP	84-3784245	Delaware
Barings Emerging Markets Corporate Bond Fund	None	Ireland
	None	Delaware
Barings Hotel Opportunity Venture I LP Barings Miller Investment Trust	04-1590850	Australia
Barings Willer Investment Trust Barings Real Estate Debt Income Fund LP	85-3449260	Austrana Delaware
Barings Real Estate Debt Income Fund LP Barings Real Estate European Value Add I SCSp	85-3449260 None	Luxembourg
		Luxembourg Delaware
Barings Small Business Fund, L.P.	None None	Delaware Delaware
Barings-MM Revolver Fund LP*		
Barings U.S. High Yield Fund	None	Delaware

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Beauty Brands Acquisition LLC Beauty Brands Acquisition Intermediate LLC Beauty Brands Acquisition Intermediate LLC None Forma Brands, LLC None Obelaware Cornerstone Permanent Mortgage Fund LLC 45-2632610 Massachusetts
Beauty Brands Acquisition Intermediate LLC Forma Brands, LLC Cornerstone Permanent Mortgage Fund LLC None Delaware Delaware 45-2632610 Massachusetts
Forma Brands, LLC Cornerstone Permanent Mortgage Fund LLC None 45-2632610 None Massachusetts
Cornerstone Permanent Mortgage Fund LLC 45-2632610 Massachusetts
CDEL DIA
CREA Ridge Apartments, LLC None Delaware
Euro Real Estate Holdings Herleshausen LLC None Delaware
London Office JV Holdings LLC None Delaware
Riverwalk MM Member, LLC None Delaware
Aland Royalty Holdings LP None Delaware
Chassis Acquisition Holding LLC 81-2244465 Delaware
CRA Aircraft Holding LLC 81-4258759 Delaware
EIP Holdings I, LLC None Delaware
Red Lake Ventures, LLC 46-5460309 Delaware
Validus Holding Company LLC 46-0687392 Delaware
SBNP SIA II LLC 04-1590850 Delaware
SBNP SIA III LLC None Delaware
MM Speedway El Paso Member LLC None Delaware
Barings European Real Estate Debt Income Fund None Luxembourg
Babson Capital Loan Strategies Fund, L.P.* 37-1506417 Delaware
Barings US High Yield Bond Fund None Ireland
Babson CLO Ltd. 2015-I None Cayman Islands
Babson CLO Ltd. 2015-II None Cayman Islands
Babson CLO Ltd. 2016-II None Cayman Islands
Barings CLO 2018-III None Cayman Islands
Barings CLO 2018-IV None Cayman Islands
Barings CLO 2019-II 98-1473665 Cayman Islands
Barings CLO 2019-III None Cayman Islands
Barings CLO 2019-IV None Cayman Islands
Barings CLO 2020-I None Cayman Islands
Barings CLO 2020-III None Cayman Islands
Barings CLO 2020-IV None Cayman Islands
Barings CLO 2021-I None Cayman Islands
Barings CLO 2021-II None Cayman Islands
Barings CLO 2021-III None Cayman Islands
Barings CLO 2024-II None Cayman Islands
Babson Euro CLO 2014-I BV None Netherlands
Babson Euro CLO 2015-I BV None Netherlands
Barings Euro CLO 2019-I Ireland
Barings Euro CLO 2019-II None Ireland
Barings Euro CLO 2020-I DAC None Ireland
Barings Euro CLO 2021-I DAC 3715576VH Ireland
Barings Euro CLO 2021-II DAC 3750378QH Ireland
Barings Euro CLO 2021-III DAC None Ireland

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	Federal Tax ID NAIC Co Code	State of Domicile
Barings Euro CLO 2023-II DAC	None	Ireland
Barings Global Energy Infrastructure Fund I LP	98-1332384	Cayman Islands
Barings Global Special Situations Credit 4 Delaware*	85-1465973	Delaware
Barings Global Special Situations Credit 4 LUX*	98-1570693	Luxembourg
Barings Europe Select Fund	None	Ireland
Barings Hotel Opportunity Venture	87-0977058	Connecticut
Barings Innovations & Growth Real Estate Fund*	86-3661023	Delaware
Barings Middle Market CLO 2017-I Ltd & LLC	None	Cayman Islands
Barings Middle Market CLO 2018-I	None	Cayman Islands
Barings Middle Market CLO 2019-I	None	Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604	Cayman Islands
Barings Middle Market CLO Ltd 2023-I	None	Bermuda
Barings Middle Market CLO Ltd 2023-II	None	Bermuda
Barings RE Credit Strategies VII LP	98-1332384	Delaware
Barings Target Yield Infrastructure Debt Fund	98-1567942	Luxembourg
Barings CLO Investment Partners LP	81-0841854	Delaware
Barings Euro Value Add II (BREEVA II)*	None	Luxembourg
Barings Transportation Fund LP*	87-1262754	Delaware
Braemar Energy Ventures I, L.P.*	None	Delaware
Barings European Core Property Fund SCSp*	None	Luxembourg
Barings European Private Loan Fund III A	46-5001122	Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932	New York
Benchmark 2018-B4	None	New York
Benchmark 2018-B8	38-4096530	New York
Barings Core Property Fund LP	20-5578089	Delaware
DPI Acres Capital SPV LLC	04-1590850	Delaware
DPI-ARES Mortgage Lending SPV, LLC	04-1590850	Delaware
E2E Affordable Housing Debt Fund LLC	None	Delaware
Great Lakes III, L.P.	37-1708623	Delaware
GIA EU Holdings - Emerson JV Sarl	98-1607033	Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-4041012	New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059	New York
Martello Re Feeder LP	None	Delaware
Martello Re LP	None	Delaware
Martello Re Holding Limited LLC	None	Delaware
Martello Re Limited	None	Bermuda
Martello Re Services Company	None	Delaware
Miami Douglas Three MM, LLC	04-1590850	Delaware
MM BIG Peninsula Co-Invest Member LLC*	87-4021641	Delaware
MM Direct Private Investment Holding	04-1590850	Delaware
MM CM Holding LLC	None	Delaware
MM Debt Participations LLC	81-3000420	Delaware

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		Federal Tax ID	NAIC Co Code	State of Domicile
	on Member LLC*	04-1590850		Delaware
	on Member LLC*	04-1590850		Delaware
	Fechnology Fund GP*	04-1590850		Delaware
	rrict Landco Member LLC	None		Delaware
MM Subline Bo		04-1590850		Delaware
SBNP SIA IV L		None		Delaware
Washington Pin	e LLC	04-1590850		Delaware
Ten Fan Pier Bo	oulevard LLC	35-2553915		Delaware
	apital Partners III, L.P.	41-2280127		Delaware
	apital Partners IIIA, L.P.	41-2280129		Delaware
Trailside MM M		04-1590850		Delaware
Washington Gat	eway Three LLC	32-0574045		Delaware
Washington Gat	eway Two LLC*	83-1325764		Delaware
MALIC Debt Pa	articipations LLC	None		Delaware
Barings Affiliates & Fund	ls:			
Babson Capital	Loan Strategies Master Fund LP	None		Cayman Islands
Barings China A	Aggregate Bond Private Securities Investment Fund	None		Peoples Republic of China
Barings Global	High Yield Fund	47-3790192		Massachusetts
Great Lakes II I	.LČ*	71-1018134		Delaware
Wood Creek Ve	nture Fund LLC	04-1590850		Delaware
Barings Real Estate Affili	ates & Funds:			
Barings Californ	nia Mortgage Fund IV	None		California
Barings Umbrel	la Fund LUX SCSp SICAV RAIF*	None		Luxembourg
Calgary Railway		82-2285211		Delaware
Cornbrook PRS	Holdings LLC	82-3307907		Delaware
Cornerstone Cal	ifornia Mortgage Fund I LLC	95-4207717		California
Cornerstone Cal	ifornia Mortgage Fund II LLC	95-4207717		California
Cornerstone Cal	ifornia Mortgage Fund III LLC	95-4207717		California
Cornerstone For	t Pierce Development, LLC*	56-2630592		Delaware
Cornerstone Per	manent Mortgage Fund II LLC	61-1750537		Massachusetts
Cornerstone Per	manent Mortgage Fund III LLC	35-2531693		Massachusetts
Cornerstone Per	manent Mortgage Fund IV LLC	61-1793735		Massachusetts
CREA/PPC Ver	nture, LLC	20-0348173		Delaware
Danville Riverw	valk Venture, LLC	82-2783393		Delaware
Euro Real Estate	e Holdings LLC	04-1590850		Delaware
Fan Pier Develo	pment LLC*	20-3347091		Delaware
	gs LLC - Avalon Spain	04-1590850		Delaware
GIA EU Holdin		04-1590850		Delaware
Landmark Mand	hester Holdings LLC	81-5360103		Delaware
MMLIC Debt P	articipations LLC	13-1935920		Delaware
MM Brookhave	n Member LLC	04-1590850		Delaware
MM Ascend Mt	g. Lending LLC	04-1590850		Delaware
	Industrial Member LLC*	04-1590850		Delaware
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	Federal Tax ID NAIC Co Code	State of Domicile
MM East South Crossing Member LLC	04-1590850	Delaware
MM Horizon Savannah Member LLC*	04-1590850	Delaware
MM Horizon Savannah Member II LLC*	04-1590850	Delaware
MM Ironhead Commerce Center	04-1590850	Delaware
MM National Self-Storage Program Member LLC	04-1590850	Delaware
MM 1400 E 4th Street Member LLC	04-1590850	Delaware
MM 1370 AVE OF AM LLC	04-1590850	Delaware
One Harbor Shore LLC*	80-0948028	Delaware
Paco France Logistics LLC	04-1590850	Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None	Delaware
Three PW Office Holding LLC	81-5273574	Delaware
Trailside MM Member II LLC	04-1590850	Delaware
Unna, Dortmund Holding LLC	82-3250684	Delaware
Washington Gateway Apartments Venture LLC*	45-5401109	Delaware
West 37th Street Hotel LLC*	88-3861481	Delaware
MassMutual Premier Funds:	00 3001 101	Dolaware
MassMutual Premier Strategic Emerging Markets Fund	26-3229251	Massachusetts
MassMutual Select Funds:	20 3227231	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
MassMutual Select 5 Main Company value 1 und MassMutual Select T. Rowe Price Retirement 2005 Fund	82-3347422	Massachusetts
MassMutual Select T. Rowe Price Retirement 2010 Fund	82-3355639	Massachusetts
MassMutual Select T. Rowe Price Retirement 2015 Fund	82-3382389	Massachusetts
MassMutual Select T. Rowe Price Retirement 2020 Fund	82-3396442	Massachusetts
MassMutual Select T. Rowe Price Retirement 2025 Fund	82-3417420	Massachusetts
MassMutual Select T. Rowe Price Retirement 2030 Fund	82-3430358	Massachusetts
MassMutual Select T. Rowe Price Retirement 2035 Fund	82-3439837	Massachusetts
MassMutual Select T. Rowe Price Retirement 2040 Fund	82-3451779	Massachusetts
MassMutual Select T. Rowe Price Retirement 2045 Fund	82-3472295	Massachusetts
MassMutual Select T. Rowe Price Retirement 2050 Fund	82-3481715	Massachusetts
MassMutual Select T. Rowe Frice Retirement 2055 Fund	82-3502011	Massachusetts
MassMutual Select T. Rowe Price Retirement 2060 Fund	82-3525148	Massachusetts
MassMutual Select T. Rowe Price Retirement Balanced Fund	82-3533944	Massachusetts
MML Series Investment Funds:	82-3333944	Massachusetts
MML Series Investment Funds. MML Series International Equity Fund	46-4257056	Massachusetts
MML Series Investment Funds II:	40-423/030	Wassachuseus
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
	47-3529636 47-3544629	Massachusetts
MML Series II Equity Rotation Fund MassMutual RetireSMART Funds:	47-3344029	wassachusetts
	27 1022280	Massashvaatta
MassMutual RetireSMART 2035 Fund	27-1933380	Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769	Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207	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.

MassMutual RetireSMART 2060 Fund47-5326235MassachusettsMassMutual 20/80 Allocation Fund45-1618155MassachusettsMML SER INVT FD II ISHARES 80/20 ALLOCATION FD45-1618222MassachusettsMassMutual RetireSMART In Retirement Fund03-0532464MassachusettsMassMutual 40/60 Allocation Fund45-1618262MassachusettsMassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund45-1618046MassachusettsMassMutual Bule Chip Growth Fund04-3212054MassachusettsMassMutual Bule Chip Growth Fund04-3556992MassachusettsMassMutual Core Bond Fund04-3277549Massachusetts	
MassMutual 20/80 Allocation Fund45-1618155MassachusettsMML SER INVT FD II ISHARES 80/20 ALLOCATION FD45-1618222MassachusettsMassMutual RetireSMART In Retirement Fund03-0532464MassachusettsMassMutual 40/60 Allocation Fund45-1618262MassachusettsMassMutual 60/40 Allocation Fund45-1618046MassachusettsMassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
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MassMutual RetireSMART In Retirement Fund03-0532464MassachusettsMassMutual 40/60 Allocation Fund45-1618262MassachusettsMassMutual 60/40 Allocation Fund45-1618046MassachusettsMassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
MassMutual 40/60 Allocation Fund45-1618262MassachusettsMassMutual 60/40 Allocation Fund45-1618046MassachusettsMassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
MassMutual 60/40 Allocation Fund45-1618046MassachusettsMassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
MassMutual ishares 60/40 Allocation Fund45-1618046MassachusettsMassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
MassMutual Balanced Fund04-3212054MassachusettsMassMutual Blue Chip Growth Fund04-3556992Massachusetts	
MassMutual Blue Chip Growth Fund 04-3556992 Massachusetts	
<u>.</u>	
MassMutual Core Bond Fund 04-3277549 Massachusetts	

MassMutual Disciplined Growth Fund 04-3539084 Massachusetts	
MassMutual Disciplined Value Fund 04-3539083 Massachusetts	
MassMutual Diversified Value Fund 01-0821120 Massachusetts	
MassMutual Equity Opportunities Fund 04-3512590 Massachusetts	
MassMutual Inflation-Protected and Income Fund 03-0532475 Massachusetts	
MassMutual Mid Cap Growth Fund 04-3512596 Massachusetts	
MassMutual Premier Diversified Bond Fund 04-3464165 Massachusetts	
MassMutual RetireSMART by JPMorgan 2065 Fund 92-1441036 Massachusetts	
MassMutual Select 80/20 Allocation Fund 45-1618222 Massachusetts	
MassMutual Select Overseas Fund 04-3557000 Massachusetts	
MassMutual Select T Rowe Price Retirement 2065 Fund 92-1427882 Massachusetts	
MassMutual Small Cap Growth Equity Fund 04-3464205 Massachusetts	
MassMutual Small Cap Opportunities Fund 04-3424705 Massachusetts	
MassMutual Small Cap Value Equity Fund 02-0769954 Massachusetts	
MassMutual Clinton Municipal Credit Opportunities Fund 93-4168848 Massachusetts	
MassMutual Clinton Municipal Fund 93-4190918 Massachusetts	
MassMutual Clinton Short-Term Municipal Fund 93-4193313 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.

SCHEDULE Y

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Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	ı l
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
	Croup riamo	0000			0		Massachusetts Mutual Life Insurance Company			Massachusetts Mutual Life Insurance	G tiG. /	.a.go	=::::ty(:00):: 0:00::(0)	(100/110)	
. 0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			(MMLIC)	MA	UIP	Company	Ownership	100.000	MMLIC		ı l
. 0400	massachusetts mut Life ins co	00300	04-1030000	3040300			(MIMLIO)		011	Massachusetts Mutual Life Insurance	owner strip		WWILTO		
. 0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company	CT	IΔ	Company	Ownership	100.000	MM IC		ı l
. 0435	Massachusetts Mut Life Ins Co	70416	43-0581430				MML Bay State Life Insurance Company	CT	IA	C.M. Life Insurance Company	Ownership	100.000	MM_IC		
	Massachusetts mut Life ins co	/0410	43-0361430								•				, · · · · · · · · · · · · · · · · · · ·
. 0000							CML Special Situations Investor LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC		, · · · · · · · · · · · · · · · · · · ·
. 0000							CM Life Mortgage Lending LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
. 0000							CML Mezzanine Investor III, LLC	DE	NI A	C.M. Life Insurance Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					ı l
. 0000							CML Global Capabilities LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					ı
. 0000							MM Global Capabilities LLC	DE	NI A	Company	Ownership	100.000	MMLIC		i
							MassMutual Global Business Services India								ı l
. 0000							LLP	IND	NI A	MM Global Capabilities LLC	Ownership	100.000	MMLIC		ı
. 0000							MM Global Capabilities (Netherlands) B.V	NLD	NI A	MM Global Capabilities LLC	Ownership	100.000	MMLIC		ı
							MassMutual Global Business Services Romania								ı
. 0000			l				S.R.L.	R0U	NI A	MM Global Capabilities (Netherlands) B.V.	Ownership		MMLIC	.	i l
										Massachusetts Mutual Life Insurance					ı l
. 0000							MM Global Capabilities II LLC	DE	NI A	Company	Ownership	100.000	MMLIC	.	i l
										Massachusetts Mutual Life Insurance					ı
. 0000							MM Global Capabilities III LLC	DE	NI A	Company	Ownership	100.000	MMLIC		ı l
								52		Massachusetts Mutual Life Insurance				.	
. 0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NI A	Company	Ownership	100.000	MMLIC		ı l
						***************************************	limit but ringo martiramity rebo edeo eeo	52		Massachusetts Mutual Life Insurance	omior on p		mm_10	.	
. 0000			04-1590850				Berkshire Way LLC	DE	NI A	Company	Ownership	100.000	MMLIC		ı
. 0000			01 1000000			***************************************	Dornonii o way EEO	52		Massachusetts Mutual Life Insurance	omior on p		mm_10	.	
. 0000							MML Special Situations Investor LLC	DE	NIA	Company	Ownership	100.000	MMLIC		ı l
. 0000						***************************************	THINE OPCOTOR OTTOGETORS THEOGETOR ELS	52		Massachusetts Mutual Life Insurance	omior on p		mm_10	.	
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		ı
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NI A	C.M. Life Insurance Company	Influence		MM IC		,
. 0000			47-5322979					DE	NIA		Management		MMLIC		
			47-5322979				Timberland Forest Holding LLC			Wood Creek Capital Management LLC					ı · · · · · ·
. 0000							Lyme Adirondack Forest Company, LLC	DE	NI A	Timberland Forest Holding LLC	Ownership	100.000	MMLIC		, · · · · · · · · · · · · · · · · · · ·
. 0000							Lyme Adirondack Timberlands I, LLC	DE	NI A	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	,
. 0000							Lyme Adirondack Timberlands II, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	,
. 0000							Lyme Adirondack Timber Sales, LLC	DE	NI A	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC	.	,
]	Ì					1	1	Massachusetts Mutual Life Insurance					, !
. 0000			04-1590850				MSP-SC, LLC	DE	NI A	Company	Ownership	100.000	MMLIC	.	, l
]	Ì					1	1	Massachusetts Mutual Life Insurance					, !
. 0000			04-1590850				Insurance Road LLC	DE	NI A	Company	Ownership	100.000	MMLIC	.	, l
. 0000		l	04-1590850	l			MassMutual Trad Private Equity LLC	DE	NI A	Insurance Road LLC	Ownership	100.000	MMLIC	.	i [
. 0000			04-1590850				MassMutual Intellectual Property LLC	DE	NIA	Insurance Road LLC	Ownership	100.000	MMLIC		,
. 0000			. 1000000				Trad Investments LLC	DE	NI A	Insurance Road LLC	Ownership	100.000	MMLIC	.	
. 0000							TI UU TIIVOSUIIOTIUS I LLU			Massachusetts Mutual Life Insurance	omiol silip			.	
. 0000							ITPSHolding LLC	DE	NIA	Company	Ownership	100.000	MM_IC		ı l
. 0000		l					HITPS LLC	DE	NIA	ITPS Holding LLC	Ownership	100.000	MMLIC	.	
. 0000							IIIIFO LLU	VE	NIA	Massachusetts Mutual Life Insurance	Owner Sill P	100.000	WWILTO	.	, · · · · · ·
. 0000]	Ì				EM Opportunities LLC	DE	NIA		Ownership	100.000	MMLIC		, !
. 0000							w opportunities LLC	DE	NIA	Company	Owner Ship	100.000	MINILIU		,·····
0000]	Ì				Marakata I NOM Income Comment	V.T	NIA	Massachusetts Mutual Life Insurance	0	100.000	188 10		, l
. 0000		·····					MassMutual MCAM Insurance Company, Inc	VT	NIA	Company	Ownership	100.000	MMLIC	.	, [
0000							W W A L V A LIO IV OD LLO	DE		Massachusetts Mutual Life Insurance		99.000	MMLIC		ı l
. 0000							MassMutual Ventures US IV GP, LLC	DE	NIA	Company	Ownership			.	, · · · · ·
. 0000							MassMutual Ventures US IV GP, LLC	DE	NIA	Massachusetts Mutual Ascend	Ownership	1.000	MMLIC	.	

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Group	O a a Nama	Company	ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates MassMutual Ventures US IV. L.P.	tion DE	Entity	(Name of Entity/Person) MassMutual Ventures US IV GP. LLC	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	4
. 0000							MassMutual Ventures US IV, L.P	DE	NIA	MassMutual Ventures US IV GP, LLC	Ownership	100.000	MMLIC		
. 0000							massmutual ventures us IV LLC	UE	NIA	Massachusetts Mutual Life Insurance	Ownersnip	100.000	MMLIC		
. 0000					l		MassMutual Ventures Europe/APAC GP, LLC	DE	NI A	Company	Ownership		MMLIC		l l
. 0000							MassMutual Ventures Europe/APAC GP, L.P	CYM	NI A	MassMutual Ventures Europe/APAC GP, LLC	Ownership	100.000	MMLIC		
										MassMutual Ventures Europe/APAC I GP, L.P.					
. 0000							MassMutual Ventures Europe/APAC L.P	CYM	NI A		Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia III LLC .	DE	NI A	MassMutual Ventures Europe/APAC I L.P	Ownership	100.000	MMLIC		
0000							MMV Digital I LLC	OVAL	NII A	MassMutual Ventures Southeast Asia III LLC	0		MML1C		l ,
. 0000							MMV DIGITAL I LLC	CYM	NI A	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000							Counterpointe Sustainable Advisors LLC	DE	NI A	Company	Ownership	100.000	MML IC		l ,
. 0000							CSA Intermediate Holdco LLC	DE	NI A	Counterpointe Sustainable Advisors LLC	Ownership	100.000	MM_IC		
. 0000							Counterpointe Trust Services LLC	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							CP PACE LLC	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Titling Trust	DE		CP PACE LLC	Ownership	100.000	MMLIC		
. 0000							CSA Employee Services Company LLC	DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
							Counterpointe Sustainable Real Estate II LLC								l ,
. 0000								DE	NI A	CSA Intermediate Holdco LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions II LLC Counterpointe Energy Solutions (CA) II LLC .	DE	NIA	CSA Intermediate Holdco LLC Counterpointe Energy Solutions II LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions (CA) II LLC .	DE		Counterpointe Energy Solutions II LLC	Ownership	100.000	MMLIC		
. 0000							Counterpointe Energy Solutions (IL) II LLC	DE		Counterpointe Energy Solutions II LLC	Ownership	100.000	MMI IC		
. 0000							Loop-Counterpointe PACE LLC	DE		Counterpointe Energy Solutions (IL) LLC	Ownership.		MMLIC		
. 0000							Counterpointe Energy Services LLC	DE	NIA	CSA Intermediate Holdco LLC	Ownership		MMLIC		
. 0000							CSA Incentive Holdco LLC	DE	NI A	Counterpointe Sustainable Advisors LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					l ,
. 0000			27-0105644				Jefferies Finance LLC	DE	NI A	Company	Ownership	50.000	MMLIC		1
. 0000							JFIN GP Adviser LLC	DE		Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies MM Lending LLC	DE	NI A NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Apex Credit Partners LLC	DE		Green SPE LLC	Ownership	100.000	MMLIC		
. 0000							Apex GP LLC	DE	NIA	Apex Credit Partners LLC	Ownership		MMLIC		
. 0000							Apex Securitized Income Fund LP	DE	NI A	Apex GP LLC	Ownership		MMLIC		
. 0000							Jefferies Credit Partners LLC	DE		Jefferies Finance LLC	Ownership.		MMLIC		
. 0000							Jefferies Credit Management LLC	DE		Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JCM GP I LLC	DE		Jefferies Credit Management LLC	Ownership	100.000	MMLIC		
. 0000							JCM H-2 Credit Fund GP LLC	DE	NI A	Jefferies Credit Management LLC	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2022 LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
0000					1		Jefferies Direct Lending Europe SCSp SICAV-	1111/		1.77	0 11	0.000	MML IC		
. 0000							RAIF	LUX DE	NI A	Jefferies Credit Partners LLC Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
. 0000							Jefferies Credit Management Holdings LLC JDLF GP (Europe) S.a.r.l	DE		Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		
. 0000							JFAM GP LLC	DE		Jefferies Credit Partners LLC	Ownership		MMLIC		
. 0000							JFAM GP LP	DE		Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund C LP	DE		JFAM GP LP	Ownership.		MMLIC		
. 0000							Jefferies DLF C Holdings LLC	DE		Jefferies Direct Lending Fund C LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund C SPE LLC	DE		Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JDLF II GP LLC	DE		Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JDLF II GP LP	DE	NI A	JDLF II GP LLC	Ownership	100.000	MMLIC		

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Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Jefferies Direct Lending Fund II C LP	DE	NIA	JDLF II GP LP	Ownership	100.000	MMLIC		
. 0000							Jefferies DLF 2 C Holdings LLC	DE	NIA	Jefferies Direct Lending Fund II C LP	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund II C SPE LLC	DE	NIA	Jefferies DLF 2 C Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JDLF III GP LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
							JDLF III GP LP	DE	NIA	JDLF III GP LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Direct Lending Fund III C LP	DE	NIA	JDLF III GP LP	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2023-1 LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JCP Direct Lending CLO 2023 Ltd	JEY	NIA	JCP Direct Lending CLO 2023 Ltd	Ownership	100.000	MMLIC		
. 0000							JCP GP I LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
							Jefferies M Super Private Credit Fund GP LLC								'
. 0000								DE	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Private Credit BDC Inc	MD	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JCP Funding 2024 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Senior Lending LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Holdings II LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Co-Issuer Corporation	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Europe GP, S.a.r.I.	LUX	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, S.L.P	LUX	NIA	JFIN Europe GP, S.a.r.I.	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, SCSp	LUX	NIA	JFIN Europe GP, S.a.r.I.	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	Jefferies Finance Business Credit LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Funding 2021 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JSPCS MM LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN LC Fund LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-III Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2018 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2020 Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2021-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2021-V Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-II Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver CLO 2022-III Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-IV Ltd	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2024-I Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2022-IV LLC	CYM	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Fund, L.P	DE	NI A	Jefferies Finance LLC	Ownership	90.000	. MMLIC		
. 0000							JFIN Revolver Funding 2021 Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 III Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 IV Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver Funding 2022-I Ltd	BMU	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
0000							JFIN Revolver SPE1 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	[
0000							JFIN Revolver SPE3 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE4 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE4 2022 Ltd	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	[
0000							JCP Private Loan Management GP LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		<u> </u>

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						Name of Securities			Relation-		Board.	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent. Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence.	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000	Group Name	Code	Nullibel	NOOD	CIN	international)	JCP Private Loan Management LP	DE	NIA	JCP Private Loan Management GP LLC	Ownership	100.000	MMLIC	(165/110)	├
											Ownership		MMLIC		
. 0000							Apex Credit Holdings LLC	DE	NIA	Jefferies Finance LLC	•	100.000			
. 0000							JFIN CLO 2012 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2013 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2014 Ltd	CYM	NIA	Apex Credit Holdings LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Apex Credit Holdings LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2015 Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2015-II Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership	85.000	MMLIC		
. 0000							JFIN CLO 2016 Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2017 Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							JFIN CLO 2017-II Ltd	CYM	NI A	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
. 0000							Tomorrow Parent, LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Custom Ecology Holdco, LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000			86-2294635				Glidepath Holdings Inc	DE	UIP	Company	Ownership	100.000	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	63312	13-1935920				MassMutual Ascend Life Insurance Company	0H	UIP	Glidepath Holdings Inc	Ownership	100.000	MMLIC		
. 0000			31-1422717				AAG Insurance Agency, LLC	KY	NI A	MassMutual Ascend Life Insurance Company .	Ownership		MMLIC		
. 0435	Massachusetts Mut Life Ins Co	93661	31-1021738				Annuity Investors Life Insurance Company	0H	IA	MassMutual Ascend Life Insurance Company .	Ownership		MMLIC		
. 0000			31-1395344				MM Ascend Life Investor Services, LLC	0H	NI A	MassMutual Ascend Life Insurance Company .	Ownership		MMLIC		
. 0000							MM Ascend Mortgage Lending LLC	OH	NI A	MassMutual Ascend Life Insurance Company .	Ownership.		MM_IC		
. 0000			26-3260520				Manhattan National Holding, LLC	0H	UDP	MassMutual Ascend Life Insurance Company .	Ownership.		MMLIC		
. 0435	Massachusetts Mut Life Ins Co	67083	45-0252531				Manhattan National Life Insurance Company	OH	RE	Manhattan National Holding LLC	Ownership		MM_IC		
. 0400	massachasetts mat Erre mis oo	07000	40 0202001			•••••	marinattan natronar Erre misarance company	011		Massachusetts Mutual Life Insurance	owner strip		INVELO		
. 0000							MassMutual Mortgage Lending LLC	DE	NIA	Company	Ownership		MMLIC		
							massimutaan mortgago zonanig zzo			Massachusetts Mutual Life Insurance	oo.				
. 0000		l	04-1590850				MM Copper Hill Road LLC	DE	NI A	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MMV CTF I GP LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							MassMutual Ventures Climate Technology Fund I				·				
. 0000							LP	DE	NI A	MMV CTF I GP LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM Direct Private Investments Holding LLC	DE	NI A	Company	Ownership		MMLIC		
. 0000							MM Direct Private Investments UK Limited	GBR	NI A	MM Direct Private Investments Holding LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							DPI-ACRES Capital LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							PD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE		Massachusetts Mutual Life Insurance		400 000			
. 0000							DPI-ARES Mortgage Lending LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MM Investment Holding	CYM	NIA	Massachusetts Mutual Life Insurance	Ownership		MMLIC		
										Company					
. 0000							MMIH Bond Holdings LLC	DE	NIA	MM Investment Holding	Ownership	99.610	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400	MMLIC		
0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	MM Investment Holding	Ownership	99.600	MMLIC		
0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			83-3722640				MMAF Equipment Finance LLC 2019-A	DE	NIA	MassMutual Asset Finance LLC	Ownership		MMLIC		
0000							MMAF Equipment Finance LLC 2019-B	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		
0000							MMAF Equipment Finance LLC 2020-A	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		
0000							MMAF Equipment Finance LLC 2020-B	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000							MMAF Equipment Finance LLC 2021-A	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000							MMAF Equipment Finance LLC 2022-A	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000							MMAF Equipment Finance LLC 2022-B	DE	NI A	MassMutual Asset Finance LLC	Ownership		MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filina	
		NAIC					Names of	ciliary	- 1						
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Group	O No	Company	ID	Federal	0114	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	^
0000							MMAF Equipment Finance LLC 2023-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000							MMAF Equipment Finance LLC 2024-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
0000			04-2443240				MML Management Corporation	MA	NIA	MM Investment Holding	Ownership	100.000	MMLIC	YES	
0000			04-3548444				MassMutual International Holding MSC, Inc	MA	NI A	MML Management Corporation	Ownership	100.000	MMLIC		
0000			04-3341767				MassMutual Holding MSC, Inc	MA	NI A	MML Management Corporation	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000							MML CM LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							Blueprint Income LLC	NY	NIA	MML CM LLC	Ownership	100.000	MMLIC		
0000							Flourish Holding Company LLC	DE	NIA	MML CM LLC	Ownership	100.000	MMLIC		
0000							Flourish Insurance Agency LLC	DE	NI A	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
0000							Flourish Digital Assets LLC	DE	NI A	Flourish Holding Company LLC	Ownership	100 .000	MMLIC		
0000		I	l				Flourish Financial LLC	DE	NIA	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
0000							Flourish Technologies LLC	DE	NIA	Flourish Holding Company LLC	Ownership	100.000	MM_IC		l
							Trodition recimerogree EEG			Massachusetts Mutual Life Insurance	owner on p	100.000	THE TO		
0000			04-3356880				MML Distributors LLC	MA	NI A	Company	Ownership	99.000	MMLIC		
0000			04-3356880				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000	MMLIC		
			01 0000000				THIRE DIGITIDATORS LESS THE STATE OF THE STA			Massachusetts Mutual Life Insurance	owner on p	1.000	THE TO		
0000							MML Investment Advisers. LLC	DE	NI A	Company	Ownership	100 .000	MMLIC		
							The state of the s			Massachusetts Mutual Life Insurance					
0000			46-3238013				MML Strategic Distributors, LLC	DE	NI A	Company	Ownership	100 .000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			06-1563535	2881445			The MassMutual Trust Company, FSB	CT	NI A	Company	Ownership	100.000	MMLIC	YES	
				-			MML Private Placement Investment Company I,			Massachusetts Mutual Life Insurance					
0000			04-1590850				LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NI A	Baring Asset Management Limited	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			45-2738137				Pioneers Gate LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
0000			04-2854319	2392316			MassMutual Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC	YES	
0000			37-1732913				Fern Street LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
0000							Low Carbon Energy Holding	GBR	NI A	MassMutual Holding LLC	Ownership	49.000	MMLIC		
0000							Sleeper Street LLC	DE	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		l	82-2932156				GASL Holdings LLC	DE	NI A	MassMutual Holding LLC	Ownership	11.300	MMLIC		l
0000		l	82-2932156		l		GASL Holdings LLC	DE	NIA	Barings LLC	Board	l	MM_IC	l	l
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	11.500	MMLIC		
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	C.M. Life Insurance Company	Ownership/Influence	1. 11. 110	MMLIC		
0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	Barings LLC	Management	1.110	MMI IC		
0000			30-4000330				Barings Perpetual European Direct Lending	VE	NIA	Massachusetts Mutual Life Insurance	manayement	+	MINIL I U		
0000					1		Fund	LUX	NIA	Company	Ownership/Influence	82.130	MML IC		
0000							Barings Perpetual European Direct Lending	LUA	NIA	Ouiipariy	Owner Shifty IIII Lucince	02.100	INVILIO		
0000							Fund	LUX	NIA	Barings LLC	Influence		MML IC		
							I unu			Massachusetts Mutual Life Insurance	IIII I UGIICE		mmLIV		
0000			88-0916548				Barings Emerging Generation Fund II	DE	NIA	Company	Ownership/Influence	39.700	MMLIC		
0000			88-0916548				Barings Emerging Generation Fund II	DF	NIA	Barings LLC	Influence		MMI IC		
0000			00-0310040				Latings File All Achie 4 (1011 Land 11	UE	NIM	Dai iligo LLV	delice	· · · · · · · · · · · · · · · · · · ·	WW L I V		

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						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to	5: " 6 . " 11	Attorney-in-Fact,	Provide		Re-	1
Group		Company	, ID	Federal	0117	(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	!
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	لــــُـــا
. 0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	DE	NIA	MassMutual Holding LLC	Ownership/Influence	23.700	MMLIC		1
. 0000			90-1200017				Babson Capital Global Special Situation	UE	NIA	massmutual holding LLC	owner strip/ initiaence	23.700	MWLIC		
. 0000			98-1206017				Credit Fund 2	DE	NIA	C.M. Life Insurance Company	Ownership	1.500	MMLIC		1
							Babson Capital Global Special Situation			l company					, , _I
. 0000			98-1206017				Credit Fund 2	DE	NI A	Barings LLC	Management		MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	26 . 140	MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	C.M. Life Insurance Company	Ownership	5.100	MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	Barings LLC	Management		MMLIC		
							Barings Global Special Situations Credit Fund								1
. 0000							3	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	19.680	MMLIC		
0000							Barings Global Special Situations Credit Fund	1111/		Barings LLC	Management		188.10		1
. 0000			. 06–1597528				3	LUX	NIA	MassMutual Holding LLC	Ownership.		MMLIC)
. 0000			. 06-1597528				MassMutual Assignment Company	NC DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC)
. 0000			. 46-4255307					DE	NIA		Ownership		MMLIC		
. 0000			. 45-3623262				Marco Hotel LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC)
. 0000			. 45-3623262 . 82-4411267				RB Apartments LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC)
. 0000			82-4411267					DE	NIA	MassMutual Holding LLC	Ownership		MMLIC)
. 0000							Intermodal Holding II LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
								DE)
. 0000							Crane Venture Partners LLP		NIA NIA	MassMutual Ventures Holding LLC	Ownership		MMLIC)
. 0000							MassMutual Ventures Management LLC	DE	NIA	Massmutual ventures holding LLC	Ownersnip	100.000	MMLIC)
. 0000							Limited	DE	NIA	MassMutual Ventures Management LLC	Ownership	100.000	MMLIC		1
. 0000										MassMutual Ventures SEA Management Private	owner our p				ı ,
. 0000							MMV UK/SEA Limited	GBR	NI A	Limited	Ownership	100.000	MMLIC		l ^J
										MassMutual Ventures SEA Management Private	·				1
. 0000							MassMutual Ventures India Private Limited	IND	NIA	Limited	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia I LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia II LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures UK LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000			47-1296410				MassMutual Ventures US LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US II LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US III LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund II LLC	DE	NI A	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							Rothesay Limited	GBR	NI A	MM Rothesay Holdco US LLC	Ownership	47.600	MMLIC		
. 0000							Rothesay Mortgages Limited	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Life Plc	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.1 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.3 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.4 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							LT Mortgage Financing Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Property Partnership 1 LLP	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Foundation	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Pensions Management Limited	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management UK Limited	GBR	NI A	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management Australia Pty Ltd	AUS	NI A	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management North America LLC	DE	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		

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											Type	If			
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						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000			04-1590850				MML Investors Services, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MML Insurance Agency, LLC	MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
. 0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
. 0000			47-1466022				LifeScore Labs, LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			45-4000072				MM Asset Management Holding LLC	MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			51-0504477				Barings LLC	MA	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
							Baring Asset Management (Asia) Holdings								
. 0000			98-0524271				Limited	HKG	NI A	Barings LLC	Ownership	100.000	MMLIC		
0000			00 0457405				Baring International Fund Managers (Bermuda)	DATE		Baring Asset Management (Asia) Holdings	0 1:	400 000	IIII 10		
. 0000			98-0457465				Limited	BMU	NIA	Limited	Ownership	100.000	MMLIC		
. 0000			98-0457463				Baring Asset Management (Asia) Limited	HKG	NIA	Limited	Ownership	100.000	MM_IC		
. 0000			30-0437403				Baring Asset Management Korea Limited	KOR	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
. 0000							Barings Investment Management (Shanghai)		NIA	Dailing Asset Management (Asia) Limited	Owner Sirrp		WWILTO		
. 0000		l					Limited	HKG	NIA	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		
							Barings Overseas Investment Fund Management			Barings Investment Management (Shanghai)					
. 0000							(Shanghai) Limited	HKG	NIA	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					
. 0000			98-0457707				Baring SICE (Taiwan) Limited	TWN	NI A	Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings					
. 0000							Barings Singapore Pte. Ltd	SGP	NIA	Limited	Ownership	100.000	MMLIC		
. 0000			98-0236449				Barings Japan Limited	JPN	NIA	Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MM_IC		
. 0000			90-0230449				barings Japan Limiteu	JPIV	NIA	Baring Asset Management (Asia) Holdings	owner strip	100.000	NINILIU		
. 0000							Barings Australia Holding Company Pty Ltd	AUS	NIA	Limited	Ownership	100.000	MMLIC		
. 0000							Barings Australia Pty Ltd	AUS	NIA	Barings Australia Holding Company Pty Ltd	Ownership	100.000	MMLIC		
. 0000							Barings Australia Real Estate Holdings Pty	noo		barrings Austraria nording company i ty Eta	Owner Strip		WWL10		
. 0000							Ltd	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
										Barings Australia Real Estate Holdings Pty	·				
. 0000			14-0045656				Barings Australia Real Estate Pty Ltd	AUS	NIA	Ltd	Ownership	100.000	MMLIC		
							Barings Australia Property Partners Holdings								
. 0000			98-0457456				Pty Ltd	AUS	NIA	Barings Australia Real Estate Pty Ltd	Ownership	100.000	MMLIC		
. 0000							Davings Australia Asset Management Dtv Ltd	AUS	NIA	Barings Australia Property Partners	Ownership	100.000	MMLIC		
. 0000							Barings Australia Asset Management Pty Ltd .	AUS	NIA	Holdings Pty Ltd Barings Australia Property Partners	Owner Strip		MWLIC		
. 0000		l	l	l			Barings Australia Property Partners Pty Ltd	AUS	NIA	Holdings Ptv Ltd	Ownership	100.000	MMLIC		
							Barings Australia Structured Finance Holdings								
. 0000							Pty Ltd	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
			1				Barings Australia Structured Finance Pty Ltd			Barings Australia Structured Finance					
. 0000								AUS	NIA	Holdings Pty Ltd	Ownership	100.000	MMLIC		
										Barings Australia Structured Finance Pty					
. 0000							Gryphon Capital Partners Pty Ltd	AUS	NIA	Ltd	Ownership	100.000	MMLIC		
. 0000							Gryphon Capital Management Pty Ltd	AUS	NI A	Gryphon Capital Partners Pty Ltd	Ownership	100.000	MMLIC		
. 0000							Gryphon Capital Investments Pty Ltd	AUS	NIA	Gryphon Capital Partners Pty Ltd	Ownership	100.000	MMLIC		
. 0000			80-0875475				Barings Finance LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BCF Europe Funding Limited	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
. 0000							BCF Senior Funding LLC	DE	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
. 0000			1				BCF Senior Funding Designated Activity	IRL	NIA	Barings Finance LLC	Ownership	100.000	MMLIC		
							Company			5	Ownership	100.000			
. 0000			04 2020054				Barings Real Estate Acquisitions LLC	DE	NIA	Barings LLC		100.000	MMLIC		
. 0000			04-3238351 98-0437588				Barings Securities LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			98-043/588				Barings Guernsey Limited	Y	NIA	Barings LLC	Uwnersnip		MMLIU		

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											Type	If			
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											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings Europe Limited	GBR	NI A	Barings Guernsey Limited	Ownership	100.000	MMLIC		
. 0000							Barings Asset Management Spain SL	ESP	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Baring France SAS	FRA	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
							Baring International Fund Managers (Ireland)								
. 0000							Limited	IRL	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings GmbH	DEU	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Italy S.r.I.	ITA	NI A	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Sweden AB	SWE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			00.0400450				Barings Netherlands B.V.	NLD	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			. 98-0432153				Barings (U.K.) Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Switzerland Sàrl		NI A	Barings Europe Limited	Ownership	100.000			
. 0000			98-0241935				Baring Asset Management Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			00.0457000				Barings European Direct Lending 1 GP LLP	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			. 98-0457328				Baring International Investment Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457586				Baring Fund Managers Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			98-0457578					GBR	NIA	Baring Fund Managers Limited	Ownership	100.000	MMLIC		
. 0000			98-045/5/8				Baring Investment Services Limited Barings Core Fund Feeder GP S.à.r.l	LUX	NIA	Baring Asset Management Limited Baring Asset Management Limited	Ownership		MMLIC		
. 0000								LUX	NIA	0	Ownership		MMLIC		
. 0000							Barings Investment Fund (LUX) GP S.à. r.I. Barings BME GP S.à.r.I.	GBR	NIA	Baring Asset Management Limited Baring Asset Management Limited	Owner Ship	100.000	MMLIC		
. 0000							Barings GPC GP S.a. r.l	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings European Core Property Fund GP Sàrl	GBR	NIA	Baring Asset Management Limited	Owner Ship	100.000	MMLIC		
. 0000							Barings Umbrella Fund (LUX) GP S.à.r.l	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							GPLF4(S) GP S.à r. I	LUX	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							PREIF Holdings Limited Partnership	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							BMC Holdings DE LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			04-3238351	3456895			Barings Real Estate Advisers Inc.	CA	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 04-3230331	0400000			Dailings hear Estate Auvisers inc	Un	NIA	Massachusetts Mutual Life Insurance	Owner strip		INVILIO		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NI A	Company	Ownership/Influence	65.370	MMLIC		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NI A	Barings LLC	Influence		MMLIC		
. 0000							Aland Royalty GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Alaska Future Fund GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BAI Funds SLP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BAI GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Baring Asset-Based Income Fund (US) GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings CMS Fund GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Infiniti Fund Management LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings New Jersey Emerging Manager Program								
. 0000							GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
								25		Massachusetts Mutual Life Insurance		400.000			
. 0000							Barings Hotel Opportunity Venture I GP, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							Baring Investment Series LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Emerging Generation Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Emerging Generation Fund GP II, LLC	DE	NIA	Barings LLC	Ownership	100.000			
. 0000							Barings EPLF4 Rated Feeder, L.P.	DE	NIA	Barings LLC	***************************************	100.000	MMLIC		
. 0000							Barings ERS PE Emerging Manager III GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings FC III LLC	DE	NI A	Barings LLC	Uwnersnip	100.000	WWLIG		
. 0000			04-1590850				Management LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 0100000				Barings CLO Investment Partners GP, LLC	DF	NIA	Barings LLC	Owner ship	100.000	MMLIC		
. 0000							parmys of mivestment ratthers or, LLC	∪⊏	NTA	DαΙ HIYS LLV	Omitet 2111b		IVIIVIL I V		

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						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.Ś. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No	*
. 0000						,	Barings Core Property Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings DAPPLF1 Rated Feeder, G.P.	DE		Barings LLC	Ownership	100.000	MM IC		
. 0000							Barings DAPPLF1 Rated Feeder, G.F	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		

. 0000							Barings Direct Lending GP Ltd	CYM	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Diversified Residential Fund GP LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Diversified Residential Fund LP	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings Global Energy Infrastructure								
. 0000							Advisors, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings Capital Solutions Perpetual Fund GP								
. 0000							LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings Centre Street CLO Equity Partnership		1			1			
. 0000							GP, LLC	DE	NI A	Barings LLC	. Ownership	100.000	MMLIC		
							Barings Centre Street CLO Equity Partnership			Massachusetts Mutual Life Insurance					
. 0000			88-3792609				LP	DE	NI A	Company	Ownership/Influence	27.890	. MMLIC		
							Barings Centre Street CLO Equity Partnership			. ,	·				
. 0000			88-3792609				LP	DE	NI A	Barings LLC	Management		. MMLIC		
. 0000							Barings Global Real Assets Fund GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings GPSF LLC	DE	NIA	Barings LLC	Ownership	100.000			
. 0000						***************************************	Barings North American Private Loan Fund			Dui mgo LEo	· Owner on p		- I		
. 0000							Management LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings North American Private Loan Fund II	DL	ΝΙΛ	Dai Higs LLC	. Ownership	100.000	WWLTC		
. 0000							Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings North American Private Loan Fund III	UE	NI A	bai ings LLC	. Towner Sirrp	100.000	MINICIO		
. 0000							Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Global Special Situations Credit Fund	UE	NI A	bai ings LLC	. Towner Sirrp	100.000	MINICIO		
. 0000							4 GP (Delaware) LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings - MM Revolver Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MM_IC		
. 0000							Barings Real Estate European Value Add Fund	DE	NIA	Darings LLC	. Owner Strip	100.000	. MINILIU		
. 0000							II Feeder LLC	CYM	NIA	Barings LLC	. Ownership	100.000	MMLIC		
. 0000							Barings SEM GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BMT RE Debt Fund GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
								25		Massachusetts Mutual Life Insurance	l				
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Company	Ownership	33.600	. MMLIC		
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NI A	Barings LLC	. Management		. MMLIC		
. 0000							Barings TYIDF2 Rated Feeder GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings TYIDF2 Rated Feeder, L.P	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BCLF GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC	l	
. 0000		l	98-0536233				Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership	100.000	MMLIC		J
							Barings Active Passive Equity Direct EAFE								1
. 0000		l	l				LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	I	l
. 0000							BHOVI Incentive LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		1
. 0000							BIG Real Estate Fund GP LLC	DE	NIA	Barings LLC	. Ownership	100.000	MMLIC		
									NIA				MMLIC		
. 0000							BIG Real Estate Incentive I LLC	DE		Barings LLC	. Ownership	100.000			
. 0000							BIG Real Estate Incentive II LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BRECS VII GP LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
. 0000							BREDIF GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							CPF Springing Member, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000		l	l	l			CREA-MA Reorganization Trust	DE	NIA	Barings LLC	Ownership	100.000	MMLIC	l	J
. 0000		l	l				CREF X GP LLC	DE		Barings LLC	Ownership.	100.000	MMLIC	l	1
. 0000			04-1590850				Great Lakes III GP. LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		1
			U 1 1030000				UI GAL LANGO III UF, LLU	UE	NIM	Dai 11190 LLV	. Iomiici silib	100.000	. IVIVIL I V	1	

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						No. 10 Company			D. L. C.		` '	-			
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						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Lake Jackson LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings Emerging Markets Blended Fund I GP,				·				
. 0000							LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings EPLF4 Rated Feeder GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership	99.300	MMLIC		
. 0000			80-0920285				Mezzco IV LLC	DE	NI A	Barings LLC	Ownership	99.300	MMLIC		
. 0000							Mezzco Australia II LLC	DE	NI A	Barings LLC	Ownership.	100.000	MMLIC		
. 0000							RECSA-NY GP LLC	DE	NI A	Barings LLC	Ownership.	100.000	MMLIC		
. 0000			98-1624360				Barings CLO 2022-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000			30 1024000				Barings CLO 2022-II	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Dai mgs oco 2022-11		NIA	Massachusetts Mutual Life Insurance	IIII I uelice		WWLIC		
. 0000							Amherst Long Term Holdings, LLC	DE	NI A	Company	Ownership	24.500	MMLIC		
. 0000							Amilior St. Long Term Horumgs, LLO	DL		Massachusetts Mutual Life Insurance	owner strip	24.000	WWLIO		
. 0000							Enroll Confidently, Inc.	DE	NI A	Company	Ownership	25.000	MMLIC		
. 0000							Linori community, mo.	DL		Massachusetts Mutual Life Insurance	owner strip	20.000	WWLIO		
. 0000			04-3313782				MassMutual International LLC	DE	NI A	Company	Ownership	100.000	MMLIC	YES	
. 0000			01 0010702				MassMutual Solutions LLC	DE	NI A	MassMutual International LLC	Ownership	100.000	MML IC		
. 0000							Haven Technologies Asia Limited	HKG	NIA	MassMutual Solutions LLC	Ownership	100.000	MMLIC		
. 0000								HKG		MassMutual International LLC	Ownership	24.900	MMLIC		
. 0000							Yunfeng Financial Group Limited	mku	NIA	Massachusetts Mutual Life Insurance	Uwnersnip	24.900	MWLIC		
. 0000			27-3576835				MassMutual External Benefits Group LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			21-3310033				massmutual External benefits droup LLC	DE	NIA	Massachusetts Mutual Life Insurance	Owner Simp	100.000	MWLIC		
. 0000							MM Vine Street LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							Will ville Street LLC	UL	NIA	Massachusetts Mutual Life Insurance	Owner Simp	100.000	WWLIC		
. 0000							Stillings Street LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							ottitings ottoot LLo			Massachusetts Mutual Life Insurance	owner out p				
. 0000							5301 Wisconsin Avenue Associates, LLC	DC	NI A	Company	Ownership	99.000	MMLIC		
							Total modeliam mondo model acce, EES illinii			Massachusetts Mutual Life Insurance					
. 0000							5301 Wisconsin Avenue GP, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							, , ,			Massachusetts Mutual Life Insurance					
. 0000			04-1590850				100 w. 3rd Street LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-2432216				300 South Tryon Hotel LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
		I								Massachusetts Mutual Life Insurance					
. 0000			04-1590850				300 South Tryon LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
		1								Massachusetts Mutual Life Insurance					
. 0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NIA	Company	Ownership/Influence	72.900	MMLIC		
1 1		I					Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance	1				
. 0000							LLC	DE	NI A	Company	Ownership	100.000	MMLIC	[
							Barings Affordable Housing Mortgage Fund I								
. 0000							LLC	DE	NI A	Barings LLC	Management		MMLIC		
0000		1	04 4000000				Barings Affordable Housing Mortgage Fund II	D=	N: *	Massachusetts Mutual Life Insurance		400 000	188 10		
. 0000			61-1902329				LLC	DE	NIA	Company	Ownership	100.000	MMLIC	[
0000		I	04 4000000				Barings Affordable Housing Mortgage Fund II	DE.	NIIA	Danisas II O	W		MMLIC		
. 0000		······	61-1902329				Designs Affordable House W. S. C. C.	DE	NIA	Barings LLC	Management		MWLIC		
0000		I	85-3036663				Barings Affordable Housing Mortgage Fund III	DE.	NI A	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		
. 0000			00-3030003				Reviews Affordable Haveing Markesse Fund III	DE	NIA	Company	uwner snip	100.000	ININLIU		
. 0000		1	85-3036663				Barings Affordable Housing Mortgage Fund III	DE	NIA	Barings LLC	Management		MMLIC		
. 0000		l	00-0000000				LLV	VE	NI A	Massachusetts Mutual Life Insurance	manayonent		INIMILIO		
. 0000		1					Barings Construction Lending Fund LP	DE	NI A	Company	Ownership	85.710	MMLIC		
. 0000							Datings constituction Lenuing Fund LF	UL	NI //	oumpany	Omitor 3/11p		mmL1V		

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						Name of Securities			Relation-		Board.	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance	1,	10.90		(1001110)	
. 0000							Barings Emerging Generation Fund II LP	DE	NIA	Company	Ownership	39.700	. MMLIC		
. 0000			84-3784245				Barings Emerging Generation Fund, LP	DE	NIA	Company	Ownership	67.740	. MMLIC		
. 0000			84-3784245				Barings Emerging Generation Fund, LP	DE	NI A	Barings LLC	Management		MMLIC		
. 0000							Barings Emerging Markets Corporate Bond Fund	IRL	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence		MMLIC		1
. 0000							Barings Emerging Markets Corporate Bond Fund	InL		Company	Owner Ship/ Initiaence		. INVILITO		
. 0000							Dai mgs Emerging markets corporate bond rund	IRL	NIA	Barings LLC	Ownership	57.600	MMLIC		1
. 0000										Massachusetts Mutual Life Insurance	Office of the contract of the				1
. 0000							Barings Hotel Opportunity Venture I LP	DE	NIA	Company	Ownership/Influence	65.000	. MMLIC		
. 0000							Barings Hotel Opportunity Venture I LP	DE	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							Barings Miller Investment Trust	AUS	NIA	Company	Ownership/Influence	57.330	. MMLIC		
. 0000							Barings Miller Investment Trust	AUS	NIA	MassMutual Ascend Life Insurance Company .	Influence	9.330	MMLIC		
0000			05 0440000					DE		Massachusetts Mutual Life Insurance		100.000	MMLIC		1
. 0000			85-3449260			•••••	Barings Real Estate Debt Income Fund LP	DE	NIA	Company	Ownership/Influence		MMLIC		
. 0000			85-3449260 85-3449260			•••••	Barings Real Estate Debt Income Fund LP Barings Real Estate Debt Income Fund LP	DE	NIA	C.M. Life Insurance Company	Influence		MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP Barings Real Estate European Value Add I SCSp	DE	NIA	Massachusetts Mutual Life Insurance	Managemen t		. MMLIC		
. 0000							Dailings hear Estate European value Aud 1 303p	GBR	NIA	Massachusetts mutual Life Insurance Company	Ownership/Influence	49.990	MMLIC		1
. 0000						•••••	Barings Real Estate European Value Add SCSp			Company	Owner Strip/ Hirracited		WWL10		1
. 0000		l	l					GBR	NIA	C.M. Life Insurance Company	Ownership	4.900	MMLIC		1
							Barings Real Estate European Value Add I SCSp								
. 0000								GBR	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							Barings Small Business Fund, L.P	DE	NI A	Company	Ownership	33.600	. MMLIC		
0000							B : 110 11: 1 V: 115 1	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	30.090	MMLIC		1
. 0000							Barings U.S. High Yield Fund	DE	NIA	Company Massachusetts Mutual Life Insurance	Ownership	30.090	. MMLIC		
. 0000							Barings-MM Revolver Fund LP	DE	NIA	Company	Ownership/Influence	86.000	MMLIC		1
. 0000							Barings-MM Revolver Fund LP	DE	NIA	MM Ascend	Ownership/Influence	14.000	MMLIC		
							Sat tingo min novotron i ana E			Massachusetts Mutual Life Insurance	CC. C				
. 0000							Beauty Brands Acquisition LLC	DE	NI A	Company	Ownership	32.630	. MMLIC		
. 0000							Beauty Brands Acquisition Intermediate LLC .	DE	NI A	Beauty Brands Acquisition LLC	Ownership	100.000	MMLIC		
										Beauty Brands Acquisition Intermediate LLC					1
. 0000							Forma Brands, LLC	DE	NI A		Ownership	100.000	MMLIC		
. 0000			45-2632610				O	MA	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		1
. 0000			45-2632610				Cornerstone Permanent Mortgage Fund LLC Cornerstone Permanent Mortgage Fund LLC	MA	NIA	CompanyBarings LLC	Management	100.000	MMLIC		
. 0000			45-2002010				Corner Storie Fermanent mortgage Fund LLC	WA	NIA	Massachusetts Mutual Life Insurance	Mariagement		WWLIG		
. 0000		l					CREA Ridge Apartments, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		1
										Massachusetts Mutual Life Insurance					1
. 0000							Euro Real Estate Holdings Herleshausen LLC	DE	NIA	Company	Ownership	47.500	. MMLIC		
1 1			1							Massachusetts Mutual Life Insurance					
. 0000							London Office JV Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			1				Riverwalk MM Member, LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MMLIC		1
. 0000			83-0560183				Aland Rovalty Holdings LP	DE	NIA	Company MassMutual Holding LLC	Ownership/Influence	26.690	MMLIC		
. 0000			83-0560183				Aland Royalty Holdings LP	DE		Barings LLC	Management	20.090	MMLIC		
. 0000			00-0000 100				Trianu noyatty notuings LF	VE	NIM	Dai iliyo LLU	manayciilciit		WIVIL I V		

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Decomposition Decompositio	0000			04 0044405				06	DE	NII A		0	00.000	188 10		ı l
1.00 1.00	. 0000			81-2244400				Chassis Acquisition Holding LLC	DE	NI A	Massachusetta Mutual Life Incurance	Ownership/influence	30.000	MMLIC		
Principle Prin	0000			01 /250750				CDA Aircraft Holding LLC	DE	NII A		Ownership /Influence	40,000	MAN IC		ı l
Diff Meding 1, LC																
Principal LE DE Mill LE DE Mill De DE Mill De DE DE DE DE DE DE DE	. 0000			01-4230739				ONA ATTERATE HOTOTHING LLC		NIA		IIII Tuelice		MWLIC		
Second S	0000							FIP Holdings I IIC	DE	NIA		Ownershin/Influence	29 000	MML IC		ı l
	. 0000						***************************************	Lii nordingo 1, LEO				omeranip, miracina		ma_10		
March Marc	. 0000			46-5460309				Red Lake Ventures, LLC	DE	NI A	Company	Ownership/Influence	31.520	MMLIC		t
1000										NIA						
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Sept							***************************************									
MS Soedary El Pass Weber LLC DE MS Acceptant to United LTs Insurance Description 100,000 MALC				. 04-1030000												
Mill Specing Films Refer LLC	. 0000							JOHN STATTT LLC	DL	NIA		Owner strip		INNETO		
Borning European Real Estate Delt Treese Find Lix	0000							MM Speedway El Paso Member II C	DE	NIA		Ownershin	100 000	MML IC		ı l
Description	. 0000						***************************************					omior orrip.		ma_10		
Description	0000							Darringo Europour nour Eotato Bost moomo rana	LIIX	NIA		Ownershin/Influence	54 720	MML IC		ı l
Description	. 0000							Barings European Real Estate Debt Income Fund			Ompariy	omici dirip, mi rudilo		ma_10		
0000 0000	0000							bar rigo car opean ricar cotate bobt mount rand	LIIX	NIA	Barings II C	Influence		MML IC		ı l
	. 0000											THI TUONGO		ma_10		
D000	. 0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NI A		Ownership/Influence	76 . 630	MMLIC		t
D000				37-1506417						NIA		Ownership	3 800	MML IC		ı l
Ber ings LB High Yield Band Fland								Sabour Supritur Estar Strategree Fana, Emilia	52							
Bar rings LS High Yeld Band Fund	. 0000							Barings US High Yield Bond Fund	IRL	NI A	Company	Ownership/Influence		MMLIC		i
Babon CD Ltd. 2015-1 S/ML NIA Bar ings LLC Influence. MALC 3 3 0,000 1,000	. 0000								IRL	NI A	Barings LLC	Management		MMLIC		i
Babson CD L1d 2016-1	. 0000							Babson CLO Ltd. 2015-I	CYM	NI A	Barings LLC	Influence		MMLIC		1 2
Babson CD L1d 2016-1	. 0000							Babson CLO Ltd. 2015-II	CYM	NI A	Barings LLC	Influence		MMLIC		1 3
	0000							Babson CLO Ltd 2016-LL	CYM	NIA	Barings II C	Influence		MML IC		ı İ
Description Description																
DODG Serings CLO 2019-11																
Barings CL0 2019-11				98-1473665												
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D000 Barings CLO 2021-II																ı · · · · · · · · · · · · · · · · · · ·
0000 Barings CL0 2021-III CYM NIA Barings LLC Influence MLIC MLIC																ı · · · · · · · · · · · · · · · · · · ·
0000 Barings CLO 2024-II											g					
0000 Babson Euro CLO 2014-1 BV NLD. NIA Barings LLC Influence MLIC																i
0000 Babson Euro CLO 2015-1 BV NLD. NIA Barings LLC Influence MLIC																
0000 36-037260H Barings Euro CLO 2019-1 BV IRL NIA Barings LLC Influence MMLIC															-	
0000 Barings Euro (LO 2019-I1 BV I.FL NIA Barings LLC Influence MM_LIC															-	
.0000				. 36-037260H												
0000 37-15576VH Barings Euro CLO 2021-1 DAC IRL NIA Barings LLC Influence MMLIC MMLI																
.0000																
				. 37-15576VH												
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	. 0000							Barings Euro CLO 2021-III DAC	IRL	NIA	Barings LLC	Influence		MMLIC		<u> </u>

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											(Ownership,	is		Is an	1
						Name of Securities			Relation-		Board,	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings Euro CLO 2023-II DAC	IRL	NI A	Barings LLC	Influence		MMLIC		
. 0000			. 98-1332384				Barings Global Energy Infrastructure Fund I	CYM	NI A	Massachusetts Mutual Life Insurance Company	Ownership/Influence	99.230	MMLIC		1
. 0000			. 90-1332304				Barings Global Special Situations Credit 4	m	NIA	Massachusetts Mutual Life Insurance	owner strip/ trit ruence	99.230	INVILIO		
. 0000							Delaware	DE	NI A	Company	Ownership	67.000	MMLIC		1
							Barings Global Special Situations Credit 4			. ,	·				1
. 0000							Delaware	DE	NI A	C.M. Life Insurance Company	Ownership	3.500	MMLIC		
. 0000							Barings Global Special Situations Credit 4	DE	NI A	Danison III O	Management		MMLIC		1
. 0000							Delaware	UE	NIA	Barings LLC	management		MINILI C		
. 0000							LUX	LUX	NI A	Company	Ownership	12.600	MMLIC		I l
			1				Barings Global Special Situations Credit 4								1
. 0000							LUX	LUX	NIA	C.M. Life Insurance Company	Ownership	0.700	MMLIC		
							Barings Global Special Situations Credit 4						MM_IC		1
. 0000							LUX	LUX	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings Europe Select Fund	IRL	NIA	Barings LLC	Management		IMMLIC		
. 0000			. 87-0977058				Barings Hotel Opportunity Venture	CT	NI A	Company	Ownership/Influence	50.000	MMLIC		1
. 0000			87-0977058				Barings Hotel Opportunity Venture	CT	NI A	Barings LLC	Management		MMLIC		1
							Barings Innovations & Growth Real Estate Fund			Massachusetts Mutual Life Insurance					1
. 0000			. 86-3661023				-	DE	NI A	Company	Ownership	29.700	MMLIC		
							Barings Innovations & Growth Real Estate Fund								1
. 0000			. 86-3661023					DE	NI A	C.M. Life Insurance Company	Ownership	0.400	MMLIC		
. 0000							Barings Middle Market CLO 2017-I Ltd & LLC .	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 98-1612604				Barings Middle Market CLO 2019-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 90-1012004				Barings Middle Market CLO Ltd 2021-1	BMU	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Middle Market CLO Ltd 2023-1	BMU	NIA	Barings LLC	Influence		MMLIC		
. 0000							Darringo mindro markot oco cta coco il			Massachusetts Mutual Life Insurance	THI TUCHOC		THE TO		1
. 0000			. 98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Company	Ownership/Influence	34.690	MMLIC		
. 0000			. 98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Baring Asset Management Limited	Management		MMLIC		
							Barings Target Yield Infrastructure Debt Fund			Massachusetts Mutual Life Insurance					1
. 0000			. 98-1567942				Barings Target Yield Infrastructure Debt Fund	LUX	NIA	Company	Ownership	18.870	MMLIC		
. 0000			. 98-1567942				Barings larget field intrastructure Debt Fund	LUX	NIA	Baring Asset Management Limited	Management		MMLIC		1
. 0000			. 30-130/342					LUA	NIA	Massachusetts Mutual Life Insurance	management		MWLTC		
. 0000			. 81-0841854				Barings CLO Investment Partners LP	DE	NI A	Company	Ownership/Influence	100.000	MMLIC		1
. 0000			. 81-0841854				Barings CLO Investment Partners LP	DE	NI A	Barings LLC	Management		MMLIC		l
										Massachusetts Mutual Life Insurance					1
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	Company	Ownership/Influence	27.500	MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	C.M. Life Insurance Company	Ownership	2.400	MMLIC		
. 0000			07 1000754				Barings Euro Value Add II (BREEVA II)	LUX	NIA	Barings LLC	Management	12 210	MMLIC		
. 0000			. 87-1262754				Barings Transportation Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	13.310	INVILIO		····· ·
. 0000		l	87-1262754				Barings Transportation Fund LP	DE	NI A	Company	Ownership	8.200	MMLIC		1
										Massachusetts Mutual Life Insurance				[
. 0000							Braemar Energy Ventures I, L.P	DE	NI A	Company	Ownership/Influence	98.500	MMLIC		
. 0000			.				Braemar Energy Ventures I, L.P	DE	NI A	C.M. Life Insurance Company	Ownership	1.500	MMLIC		
. 0000							Braemar Energy Ventures I, L.P	DE	NI A	Barings LLC	Management		MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	12.860	MMLIC		

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						Name of Securities			Relation-		Board.	Owner-		SCA	
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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership	0.800	MMLIC	Ī	
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management		MML IC		
			1				Salingo zaropoan coro rioporty rana coop ini			Massachusetts Mutual Life Insurance					
. 0000			46-5001122				Barings European Private Loan Fund III A	LUX	NIA	Company	Ownership.	44 .980	MML IC		
. 0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	NY	NI A	Barings LLC	Influence		MMI IC		
. 0000			. 30-4033332				Benchmark 2018-B4	NY	NIA	Barings LLC	Influence		MMLIC		
			38-4096530								Influence		MMLIC		
. 0000							Benchmark 2018-B8	NY	NI A	Barings LLC					
. 0000			. 20-5578089				Barings Core Property Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	25.900	MMLIC		
. 0000			20-5578089				Barings Core Property Fund LP	DE	NI A	Barings Real Estate Advisers LLC	Management		MMLIC		
			I							Massachusetts Mutual Life Insurance					
. 0000			. 04–1590850				DPI Acres Capital SPV LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			. 04-1590850				DPI-ARES Mortgage Lending SPV, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							E2E Affordable Housing Debt Fund LLC	DE	NI A	Company	Ownership/Influence	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			37-1708623				Great Lakes III, L.P	DE	NI A	Company	Ownership/Influence	40.450	MMLIC		
. 0000			37-1708623				Great Lakes III, L.P.	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	, and the second				
. 0000		l	98-1607033			l	GIA EU Holdings - Emerson JV Sarl	LUX	NI A	Company	Ownership/Influence	100.000	MMLIC	1	
. 0000			98-1607033				GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	Management		MML IC		
							JPMCC Commercial Mortgage Securities Trust			54:go 220					
. 0000			38-4041011				2017–JP7	NY	NI A	Barings LLC	Influence		MML IC		
. 0000			00 1011011				JPMDB Commercial Mortgage Securities Trust			Dut mgo LEO	Till Tuolioo.		ma_10		
. 0000			38-4032059				2017-C5	NY	NI A	Barings LLC	Influence		MML IC		
. 0000			00 4002000				Martello Re Feeder LP	DE	NIA	MassMutual Holding LLC	Ownership.	44.000	MMLIC		
. 0000							Martello Re LP	DE	NI A	Martello Re Feeder LP	Ownership.	54.000	MMLIC		
. 0000							Martello Re Holding Limited LLC	DE	NI A	Martello Re LP	Ownership	100.000	MMLIC		
. 0000							Martello Re Limited	BMU	NIA	Martello Re Holding Limited LLC	Ownership	100.000	MMLIC		
. 0000							Martello Re Services Company	DE	NI A	Martello Re Holding Limited LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			. 04-1590850				Miami Douglas Three MM, LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	Company	Ownership	27.000	MMLIC		
. 0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.800	MMLIC		
										Massachusetts Mutual Life İnsurance					
. 0000			. 04-1590850				MM Direct Private Invetment Holding	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM CM Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance	,	1			1
. 0000			81-3000420				MM Debt Participations LLC	DE	NI A	Company	Ownership/Influence	100.000	MMLIC		l
. 0000		I	81-3000420	l	l		MM Debt Participations LLC	DE	NI A	Barings LLC	Management	1	MMLIC		l
										Massachusetts Mutual Life Insurance					1
			04-1590850				MM MD1 Station Member LLC	DE	NI A	Company	Ownership	47.000	MMLIC		
. 0000			04-1590850				MM MD1 Station Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	3.100	MMLIC		
. 0000			. 0000000				mm mbi station member LLC	UE	IVI A	Massachusetts Mutual Life Insurance	Owner Sirip	3. 100	INIVIL I U		
. 0000			04-1590850				MM MD2 Station Member LLC	DE	NI A	Company	Ownership	47.000	MMLIC		
. 0000			04-1590850				MM MD2 Station Member LLC		NIA				MMLIC		
. 0000			. 04-1590850				MM MDZ Station Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	3.100	MINILIU		
0000			04 4500050				MAN Olimata Tankan Law Fund OD	DE	NIIA	Massachusetts Mutual Life Insurance	0	00 000	MMLIC		
. 0000			. 04-1590850				MMV Climate Technology Fund GP	DE	NI A	Company	Ownership	99.000			
. 0000		1	04-1590850				MMV Climate Technology Fund GP	DE	NI A	Massachusetts Mutual Ascend	Ownership	1.000	MMLIC	I	

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						Name of Securities		D:	Relation-		Board,	Owner-		SCA	1
		NAIC				Exchange	Names of	Domi-	ship		Management,	ship		Filing	i
Group		NAIC Company	ID	Federal		if Publicly Traded (U.S. or	Names of Parent, Subsidiaries	ciliary Loca-	to Reporting	Directly Controlled by	Attorney-in-Fact, Influence,	Provide Percen-	Ultimate Controlling	Re- quired?	i
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
0000	Croup Hame	0000	Hambon	ROOD	O.I.C	international)	OT / timideo	tion	Linky	Massachusetts Mutual Life Insurance	31101)	lage	Enary(100)/1 croon(0)	(100/140)	
. 0000							MM REED District Landco Member LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			. 04–1590850				MM Subline Borrower LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							SBNP SIA IV LLC	DE	NIA	Company	Ownership	99.000	MMLIC		
. 0000			. 04-1590850				Washington Pine LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			35-2553915				Ten Fan Pier Boulevard LLC	DE	NIA	Company	Ownership	100.000	MMLIC		i
. 0000			41-2280127				Tower Square Capital Partners III, L.P	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			. 41–2280127				Tower Square Capital Partners III, L.P	DE	NIA	MassMutual Holding LLC	Ownership/Influence	17.290	MMLIC		
. 0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Company	Ownership/Influence	97 . 170	MMLIC		
. 0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management		MMLIC		
0000			. 04-1590850				Trailside MM Member LLC	DE	NI A	Massachusetts Mutual Life Insurance	Ownership	66.970	MMLIC		1
. 0000			. 04-1590850				Trailside MM Member LLC	DE	NIA	Company	Ownership	7.380	MMLIC		
								DE		Massachusetts Mutual Life İnsurance			MMLIC		
. 0000			. 83-1325764 . 83-1325764				Washington Gateway Two LLC	DE	NIA	Company	Ownership	95.800	MMLIC		
. 0000			03-1323704				washington dateway two LLC	DE	NI A	Massachusetts Mutual Life Insurance	Owner Ship	6.720	MWLIC		
. 0000			32-0574045				Washington Gateway Three LLC	DE	NIA	Company	Ownership	95.230	MMLIC		
. 0000							MALIC Debt Participations LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							Babson Capital Loan Strategies Master Fund LP	CYM	NIA	Barings LLC	Management		MMLIC		i
. 0000							Barings China Aggregate Bond Private	tm	NIA	barings LLC	management		MWLIC		
. 0000							Securities Investment Fund	CHN	NIA	Barings LLC	Management		MMLIC		i
. 0000			47-3790192				Barings Global High Yield Fund	MA	NIA	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			71-1018134				Great Lakes II LLC	DE	NIA NIA	Company	Ownership	0.750	MMLIC		
. 0000			71–1018134				Great Lakes II LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.320	MMLIC		
. 0000			. 04–1590850				Wood Creek Venture Fund LLC	DE	NIA	Company	Ownership	40.000	MMLIC		
. 0000							Barings California Mortgage Fund IV	CA	NIA	Company	Ownership/Influence	100.000	MMLIC		
. 0000							Barings California Mortgage Fund IV	CA	NIA	Barings LLC	Influence		MMLIC		
1										Massachusetts Mutual Life Insurance	L		l		ı l
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	Company	Ownership	24.960	MMLIC		
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NIA	C.M. Life Insurance Company	Ownership	2.300	MWLIC		·····
. 0000			. 82-2285211				Calgary Railway Holding LLC	DE	NIA	Company	Ownership	90.000	MMLIC		ı
. 0000			. 82–3307907				Cornbrook PRS Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			95-4207717				Cornerstone California Mortgage Fund I LLC	CA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			95-4207717				Cornerstone California Mortgage Fund II LLC	CA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			95-4207717				Cornerstone California Mortgage Fund III LLC	CA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
0000			FC 0000F00				Orange Fred Birms Break 110	DF	ALLA	Massachusetts Mutual Life Insurance	0	00.000	188 10		ı l
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	VE	NIA	Company	Ownership	90.000	MMLIC		

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						Name of Securities			Relation-		Board,	Owner-		SCA	
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		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No	*
	Group Name	Code	56-2630592	NOOD	CIIC	international)			NIA	(,	/		MMLIC	(165/110	/
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	C.M. Life Insurance Company	Ownership	5.900	. MMLIC		
										Massachusetts Mutual Life Insurance		400 000			
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Company	Ownership	100.000	. MMLIC		
. 0000			61-1750537				Cornerstone Permanent Mortgage Fund II	MA	NI A	Barings LLC	Management		. MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Cornerstone Permanent Mortgage Fund III LLC	MA	NI A	Company	Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NI A	Company	Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance	•				
. 0000		l	20-0348173	l l			CREA/PPC Venture LLC	DE	NI A	Company	Ownership	28.520	MMLIC		
										Massachusetts Mutual Life Insurance	,				
. 0000			82-2783393				Danville Riverwalk Venture, LLC	DE	NIA	Company	Ownership	94.400	MMLIC		
			02 2700000 11				banning mineral and rental of EEO mineral	52		Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Euro Real Estate Holdings LLC	DE	NIA	Company	Ownership	50.000	MMLIC		
. 0000			04 1000000				Laro ficar Estate floratings LEO	DL		Massachusetts Mutual Life Insurance	owner strip		WWLTO		
. 0000			20-3347091				Fan Pier Development LLC	DE	NI A	Company	Ownership	65.000			
. 0000			20-3347091				Fan Pier Development LLC	DE	NIA		Ownership	5.850	MMLIC		
. 0000			20-3347091				ran Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Uwnersnip	5.850	. MML10		
								25		Massachusetts Mutual Life Insurance		400 000			
. 0000			04-1590850				GIA EU Holdings LLC - Avalon Spain	DE	NI A	Company	Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				GIA EU Holdings LLC	DE	NI A	Company	Ownership	100.000	. MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			81-5360103				Landmark Manchester Holdings LLC	DE	NI A	Company	Ownership	100.000	. MMLIC		
. 0000			13-1935920				MMLIC Debt Participations LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	100.000	. MMLIC		
							· ·			Massachusetts Mutual Life Insurance	•				
. 0000			04-1590850				MM Brookhaven Member LLC	DE	NI A	Company	Ownership	95.000	MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000			04-1590850				MM Ascend Mtg. Lending LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Company	Ownership	82.720	MMLIC		
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	12.280	MM_IC		
. 0000			04-1030000				min Ramaports muustrat member LLC	DL	NIA	Massachusetts Mutual Life Insurance	Owner Sirip	12.200	INVILIO		
. 0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		
. 0000			04-1090000				mm cast south crossing member LLC	VE	NIA	Massachusetts Mutual Life Insurance	Owner SITP	95.000	. WINILIU		
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NI A		O	95.000	MLIC		
										Company	Ownership				
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	3.700	. MMLIC		
								- n-		Massachusetts Mutual Life Insurance	L				
. 0000			04-1590850				MM Horizon Savannah Member II LLC	DE	NI A	Company	Ownership	4.430	. MMLIC		
. 0000			04-1590850				MM Horizon Savannah Member II LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.180	. MMLIC		
. 0000			04-1590850				MM Horizon Savannah Member II LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	0.380	. MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000			04-1590850				MM Ironhead Commerce Center	DE	NI A	Company	Ownership	75.250	MMLIC		
. 0000		l	04-1590850				MM Ironhead Commerce Center	DE	NIA	Massachusetts Mutual Ascend	Ownership	19.800	MM_IC		
. 0000			04-1590850				MM National Self-Storage Program Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	98.000	MMLIC		
. 0000		l · · · · · · · · · · · · · · · · · · ·	U4-1080000				mmi mational bell-blurage flogram member LLC	να	NIA	Massachusetts Mutual Life Insurance	Omilet 9111h	30.000	WWWLIV		
0000			04 1500050				MM 1370 AVE OF AM LLC	DE	NI A		O	90.000	MMLIC		
. 0000			04-1590850						NIA	Company	Ownership				
. 0000			04-1590850				MM 1370 AVE OF AM LLC	DE	NI A	C.M. Life Insurance Company	Ownership	3.330	. MMLIC		
. 0000			04-1590850				MM 1400 E 4th Street Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	96.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			80-0948028				One Harbor Shore LLC	DE	NI A	Company	Ownership	94.990	MMLIC		
. 0000		l	80-0948028	ll			One Harbor Shore LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.030	. MMLIC		
									1		1 Procession P				

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											of Control	Control			1
											(Ownership,	is		Is an	1 1
						Name of Securities			Relation-		Board,	Owner-		SCA	1 1
						Exchange		Domi-	ship		Management,	ship		Filing	1 1
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	1
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	1 1
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
0000	Croup Hamo	0000	TTUTTE	ROOD	Oiix	international	OT / timilates	tion	Linkly	Massachusetts Mutual Life Insurance	Othor)	lago	Emity(ide)/1 dicon(d)	(100/110)	
. 0000			04-1590850				Paco France Logistics LLC	DE	NIA	Company	Ownership		MMLIC		
. 0000							2001-MM	DE	NIA	Barings Real Estate Advisers LLC Massachusetts Mutual Life Insurance	Influence		MMLIC		
. 0000			81-5273574				Three PW Office Holding LLC	DE	NIA	Company	Ownership	95.100	MMLIC		
. 0000			04-1590850				Trailside MM Member II LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	47 . 100	MMLIC		1
										Massachusetts Mutual Life Insurance					
. 0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NI A	Company	Ownership	95.440	MMLIC		
. 0000			45-5401109				Washington Gateway Apartments Venture LLC	DE	NI A	C.M. Life Insurance Company	Ownership	4.770	MMLIC		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	93.800	MMLIC		1
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NIA	C.M. Life Insurance Company	Owner Strip	6.200	MMLIC		
							MassMutual Premier Strategic Emerging Markets			Massachusetts Mutual Life Insurance					
. 0000			26-3229251		0000927972	0Q	Fund	MA	NIA	Company	Ownership	57.940	MMLIC		
. 0000			42-1710935		0000916053	0Q	MassMutual Select Mid-Cap Value Fund MassMutual Select Small Capital Value Equity	MA	NIA	Company	Ownership	38.710	MMLIC		
. 0000			02-0769954		0000916053	0Q	Fund	MA	NIA	Company	Influence		MMLIC		
			.							Massachusetts Mutual Life Insurance					1
. 0000			04-3584140		0000916053	00	MassMutual Select Small Company Value Fund . MassMutual Select T. Rowe Price Retirement	MA	NIA	Company	Ownership	43.500	MMLIC		
. 0000			82-3347422		0000916053	00	2005 Fund	MA	NIA	Company	Ownership	24.510	MMLIC		1
. 0000			02 0047422		0000010000	ou	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	Owner Strip	24.010	MMLIO		
. 0000			82-3355639		0000916053	00	2010 Fund	MA	NIA	Company	Influence		MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3382389		0000916053	00	2015 Fund	MA	NI A	Company	Influence		MMLIC		
. 0000			82-3396442		0000916053	00	MassMutual Select T. Rowe Price Retirement 2020 Fund	MA	NIA	Massachusetts Mutual Life Insurance	Influence		MMLIC		1
. 0000			02-3390442		0000916055	UQ	MassMutual Select T. Rowe Price Retirement	MA	NIA	Company Massachusetts Mutual Life Insurance	ini ruence		MWLIC		
. 0000		l	82-3417420		0000916053	00	2025 Fund	MA	NIA	Company	Influence		MM_IC		l
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3430358		0000916053	00	2030 Fund	MA	NIA	Company	Influence		MMLIC		[]
. 0000			82-3439837		0000916053	00	MassMutual Select T. Rowe Price Retirement 2035 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence		MMLIC		1 1
. 0000			02-040900 <i>1</i>		66001 60000	UV	MassMutual Select T. Rowe Price Retirement		NIA	Massachusetts Mutual Life Insurance	IIII TUETICE		WWILIU		
. 0000			82-3451779		0000916053	0Q	2040 Fund	MA	NIA	Company	Influence		MMLIC		
. 0000			82-3472295		0000916053	00	MassMutual Select T. Rowe Price Retirement 2045 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence		MML IC		1
. 0000			02 0472230		0000310000	oq	MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	TITT delice.		MMLIO		
. 0000			82-3481715		0000916053	0Q	2050 Fund	MA	NIA	Company	Influence		MMLIC		
. 0000			82-3502011		0000916053	0Q	MassMutual Select T. Rowe Price Retirement 2055 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence		MMLIC		l
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1 1
. 0000			82-3525148		0000916053	00	2060 Fund	MA	NIA	Company	Influence		MMLIC		
. 0000			82-3533944		0000916053	0Q	Balanced Fund	MA	NIA	Company	Influence		MMLIC		l l
										Massachusetts Mutual Life Insurance					1 1
. 0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence	100.000	MMLIC		

SCHEDULE Y

										ING COMPANY					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
											Type	If			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC					Names of								
_		NAIC				if Publicly Traded	Names of	ciliary	_ to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	*
										Massachusetts Mutual Life Insurance					
. 0000			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Company	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			47-3544629				MML Series II Equity Rotation Fund	MA	NIA	Company	Ownership	97.230	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000		l	27-1933389		0000916053	00	MassMutual RetireSMART 2035 Fund	MA	NI A	Company	Ownership	3.220	MMLIC	1	
										Massachusetts Mutual Life Insurance					
. 0000			27-1932769		0000916053	00	MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	6.440	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000		l	46-3289207		0000916053	00	MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	20.410	MM_IC		l
						•	The state of the s			Massachusetts Mutual Life Insurance					
. 0000			47-5326235		0000916053	00	MassMutual RetireSMART 2060 Fund	MA	NIA	Company	Ownership	38.170	MML IC		
. 0000			-1-0020200		60000 60000	υ ν	massmatuar netricomani 2000 runu		NIA	Massachusetts Mutual Life Insurance	οπιοι στιτρ		THEY ILL		
. 0000			45-1618155		0000916053	00	MassMutual 20/80 Allocation Fund	MA	NIA	Company	Influence	100.000	MML IC		
. 0000			45-1010155		0000910000	0Q	MML SER INVT FD II ISHARES 80/20 ALLOCATION	MA	NIA	Massachusetts Mutual Life Insurance	Intruence	100.000	WINLIG		
. 0000			45-1618222		0000916053	00	MML SEK INVI FD II ISHARES 80/20 ALLUCATION	MA	NIA		Ownership	34.200	MMLIC		
. 0000			45-1618222		0000916053	0Q	FU	MA	NIA	Company	Ownership	34.200	MMLIC		
										Massachusetts Mutual Life Insurance		7 400			
. 0000			03-0532464		0000916053	0Q	MassMutual RetireSMART In Retirement Fund	MA	NI A	Company	Ownership	7.180	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-1618262		0000916053	0Q	MassMutual 40/60 Allocation Fund	MA	NIA	Company	Influence	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-1618046		0000916053	0Q	MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-1618046		0000916053	0Q	MassMutual ishares 60/40 Allocation Fund	MA	NIA	Company	Ownership	58.190	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3212054		0000916053	0Q	MassMutual Balanced Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3556992		0000916053	0Q	MassMutual Blue Chip Growth Fund	MA	NI A	Company	Ownership	100.000	MMLIC	1	
										Massachusetts Mutual Life Insurance					
. 0000			. 04-3277549		0000916053	00	MassMutual Core Bond Fund	MA	NIA	Company	Ownership	4.800	MMLIC		
						04	macomatat out o boild i and i			Massachusetts Mutual Life Insurance					
. 0000			. 04-3539084		0000916053	00	MassMutual Disciplined Growth Fund	MA	NIA	Company	Ownership	100.000	MML IC		
. 0000			01 0000001			04	macomataar brootprinted dromatri and			Massachusetts Mutual Life Insurance	Carrier of the	100.000	mm_10		
. 0000			. 04-3539083		0000916053	00	MassMutual Disciplined Value Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
						V4	massimatual prostprinted value fullu	m/\		Massachusetts Mutual Life Insurance	omior sirip	100.000	mmL1V		
. 0000			01-0821120		0000916053	loo	MassMutual Diversified Value Fund	MA	NIA	Company	Ownership	100.000	MM_IC		
. 0000			01-0021120		ودينوا فيونون	υ ν	massmutuai Diversiileu value Fuliu	MA	NIA	Massachusetts Mutual Life Insurance	Owner strip	100.000	INIVIL I U		
0000			04 0540500		0000040050	100	Manatheteral Consider Consider Cons	11/4	NIA A		Ownership	100 000	MML IC		
. 0000			04-3512590		0000916053	UV	MassMutual Equity Opportunities Fund	MA	NIA	Company	Ownership	100.000	MWLIC		
0000			00 0500175		0000040050		MassMutual Inflation-Protected and Income		A17.4	Massachusetts Mutual Life Insurance	0 11	00 700	188.10		
. 0000			03-0532475		0000916053	00	Fund	MA	NIA	Company	Ownership	99.790	MMLIC		
						1				Massachusetts Mutual Life Insurance	<u></u>	1			
. 0000			. 04-3512596		0000916053	00	MassMutual Mid Cap Growth Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
]										Massachusetts Mutual Life Insurance		1			
. 0000			. 04-3464165		0000916053	00	MassMutual Premier Diversified Bond Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
					1		MassMutual RetireSMART by JPMorgan 2065 Fund			Massachusetts Mutual Life Insurance		1	1		
. 0000			92-1441036		0000916053	0Q		MA	NIA	Company	Ownership	90.930	MMLIC		
					1					Massachusetts Mutual Life Insurance	1	1	1		
. 0000			45-1618222		0000916053	0Q	MassMutual Select 80/20 Allocation Fund	MA	NIA	Company	Ownership	100.000	MMLIC	[]	l
										Massachusetts Mutual Life Insurance					
. 0000		I	. 04-3557000		0000916053	00	MassMutual Select Overseas Fund	MA	NIA	Company	Ownership	100.000	MMLIC	1	l
					1		MassMutual Select T Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			92-1427882		0000916053	00	2065 Fund	MA	NIA	Company	Ownership	30.050	MMLIC		
		1	VE 1121002			1 ~ ~	=000 · UIIU · · · · · · · · · · · · · · · ·			vpaj	I ~			1	

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											Туре	lf			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
						Exchange		Domi-	ship		Management,	ship		Filing	
		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	
Group		Company	ID	Federal		(U.S. or	Parent, Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No) *
										Massachusetts Mutual Life Insurance					
. 0000			04-3464205		0000916053	00	MassMutual Small Cap Growth Equity Fund	MA	NI A	Company	Ownership	61.390	MMLIC		
. 0000			04-3424705		0000916053	00	March Arm Condition Condition Find		NIA	Massachusetts Mutual Life Insurance	Ownership	9.920	MMLIC		
. 0000			04-3424705		0000916053	00	MassMutual Small Cap Opportunities Fund	MA		Company Massachusetts Mutual Life Insurance	Uwnersnip	9.920	MMLIC		
. 0000			02-0769954		0000916053	00	MassMutual Small Cap Value Equity Fund	MA		Company	Ownership	100.000	MM_IC		
. 0000			02 0700007			O	MassMutual Clinton Municipal Credit			Massachusetts Mutual Life Insurance		100.000			
. 0000			93-4168848		0000916053	OQ	Opportunities Fund	MA	NIA	Company	Ownership	99.600	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			93-4190918		0000916053	00	MassMutual Clinton Municipal Fund	MA	NIA	Company	Ownership	98.860	MMLIC	.	
							MassMutual Clinton Short-Term Municipal Fund			Massachusetts Mutual Life Insurance					
. 0000			93-4193313		0000916053	00		MA	NIA	Company	Ownership	100.000	MMLIC	.	

Asterisk	Explanation
1 Massachusetts Mutual Life Insurance Company owns 14.23% of t	he affiliated debt of Jefferies Finance LLC
2 Debt investors own .5% and includes only Great Lakes III, L.	P
3 Debt investors own .2% and includes only Great Lakes III, L.	P

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

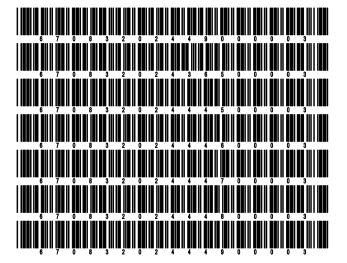
The following supplemental reports are required to be filed as part of your statement filing. However, in the event that your company does not transact the type of business for which the special report must be filed, your response of NO to the specific interrogatory will be accepted in lieu of filing 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.

	_	. 1000000
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
8.	Will the Life PBR Statement of Exemption be filed with the state of domicile by July 1st and electronically with the NAIC with the second quarterly filing per the Valuation Manual (by August 15)? (2nd Quarter Only) The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter. In the case of an ongoing statement of exemption, enter "SEE EXPLANATION" and provide as an explanation that the company is utilizing an ongoing statement of exemption	N/A
	AUGUST FILING	
9.	Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter.	N/A
	Explanation:	
1.	The data for this supplement is not required to be filed.	
2.	The data for this supplement is not required to be filed.	

- 3. The data for this supplement is not required to be filed.
- 4. The data for this supplement is not required to be filed.
- 5. The data for this supplement is not required to be filed.
- 6. The data for this supplement is not required to be filed.
- 7. The data for this supplement is not required to be filed.

Bar Code:

- 1. 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]



Response

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 rying		
7.	Deduct current year's other than temporary impairment recognized		
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

	Mortgage Loans		
		1	2
			Prior Year Ended
		Year to Date	December 31
1.	Book value/recorded investment excluding accrued interest, 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 mortgage in the est plant and military dees		
9.	Total foreign exchange change in book value/receased invessment excess decrues attended in the control of the c		
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)		
12.	Total valuation allowance		
13.	Subtotal (Line 11 plus Line 12)		
14.	Deduct total nonadmitted amounts		
15.	Statement value at end of current period (Line 13 minus Line 14)		

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	Other Long-Term invested Assets		
	-	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	111,926,521	111,899,875
2.	Cost of bonds and stocks acquired	3,035,743	17,809,776
3.	Accrual of discount	330,984	445,982
4.	Unrealized valuation increase/(decrease)		
5.	Total gain (loss) on disposals	173,403	(725,488)
6.	Deduct consideration for bonds and stocks disposed of	4,775,061	17,351,705
7.	Deduct amortization of premium	113,510	151,920
8.	Total foreign exchange change in book/adjusted carrying value		
9.	Total foreign exchange change in book/adjusted carrying value	0	0
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees		
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	110,603,336	111,926,521
12.	Deduct total nonadmitted amounts	0	
13.	Statement value at end of current period (Line 11 minus Line 12)	110,603,336	111,926,521

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

	uring the Current Quarter to	2	3	4	5	6	7	8
	Book/Adjusted				Book/Adjusted	Book/Adjusted	Book/Adjusted	Book/Adjusted
	Carrying Value Beginning	Acquisitions During	Dispositions During	Non-Trading Activity During	Carrying Value End of	Carrying Value End of	Carrying Value End of	Carrying Value December 31
NAIC Designation	of Current Quarter	Current Quarter	Current Quarter	Current Quarter	First Quarter	Second Quarter	Third Quarter	Prior Year
· ·								
BONDS								
1. NAIC 1 (a)	56,226,937	48,189,701	51,486,369	218,147	59,456,173	56,226,937	53,148,416	56,984,661
2. NAIC 2 (a)	58,879,464	111,880,054	116,994,024	2,123,452	57,838,501	58,879,464	55,888,946	57,844,195
3. NAIC 3 (a)	0		0		0	0	0	0
4. NAIC 4 (a)	1,620,548		0	(139,874)	1,624,071	1,620,548	1,480,674	1,626,687
5. NAIC 5 (a)	87,028		106	(1,622)	476,737	87,028	85,300	468,747
6. NAIC 6 (a)	0		0	0	0	0	0	
7. Total Bonds	116,813,977	160,069,755	168,480,499	2,200,103	119,395,482	116,813,977	110,603,336	116,924,290
PREFERRED STOCK								
8. NAIC 1	0	0	0	0	0	0	0	
9. NAIC 2	0	0	0	0	0	0	0	
10. NAIC 3	0	0	0	0	0	0	0	
11. NAIC 4	0	0	0	0	0	0	0	
12. NAIC 5	0	0	0	0	0	0	0	
13. NAIC 6	0	0	0	0	0	0	0	
14. Total Preferred Stock	0	0	0	0	0	0	0	0
	116.813.977	160,069,755	168.480.499	2.200.103	119.395.482	116.813.977	110,603,336	116,924,290

(a) Book/Adjusted Carrying Value column for the end of the current reporting period includes the following amount of short-term and cash equivalent bonds by NAIC designation:

Schedule DA - Part 1 - Short-Term Investments

NONE

Schedule DA - Verification - Short-Term Investments

NONE

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards

NONE

Schedule DB - Part B - Verification - Futures Contracts

NONE

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 **NONE**

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

NONE

SCHEDULE E - PART 2 - 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	8,267,946	12,521,902
2.	Cost of cash equivalents acquired	165,912,412	167,757,153
3.	Accrual of discount		
4.	Unrealized valuation increase/(decrease)	0	0
5.	Total gain (loss) on disposals	9	450
6.	Deduct consideration received on disposals	168,229,451	172,088,188
7.	Deduct amortization of premium	0	0
8.	Total foreign exchange change in book/adjusted carrying value	0	0
9.	Deduct current year's other than temporary impairment recognized	0	0
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	6,077,404	8,267,946
11.	Deduct total nonadmitted amounts	0	0
12.	Statement value at end of current period (Line 10 minus Line 11)	6,077,404	8,267,946

Schedule A - Part 2 - Real Estate Acquired and Additions Made **NONE**

Schedule A - Part 3 - Real Estate Disposed

NONE

Schedule B - Part 2 - Mortgage Loans Acquired and Additions Made

NONE

Schedule B - Part 3 - Mortgage Loans Disposed, Transferred or Repaid

NONE

Schedule BA - Part 2 - Other Long-Term Invested Assets Acquired and Additions Made NONE

Schedule BA - Part 3 - Other Long-Term Invested Assets Disposed, Transferred or Repaid NONE

Schedule D - Part 3 - Long-Term Bonds and Stocks Acquired **NONE**

SCHEDULE D - PART 4

	Show All Long-Term Bonds and Stock Sold, Redeemed or Otherwise Disposed of During the Current Quarter																				
1	2	3	4	5	6	7	8 9 10 <u>Change In Book/Adjusted Carrying Value</u> 16 17 18 19 20 2								21	22					
										11	12	13	14	15							NAIC
																					Desig-
																					nation,
																					NAIC
													Total	Total							Desig-
												Current	Change in	Foreign					Bond		nation
												Year's	Book/	Exchange	Book/				Interest/		Modifier
									Prior Year		Current	Other Than		Change in	Adjusted	Foreign			Stock	Stated	and
									Book/	Unrealized		Temporary	Carrying	Book	Carrying	Exchange	Realized		Dividends	Con-	SVO
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment	t Value	/Adjusted	Value at	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-	(11 + 12 -	Carrying	Disposal	(Loss) on	(Loss) on	(Loss) on	During	Maturity	strative
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	13)	Value	Date	Disposal	Disposal	Disposal	Year	Date	Symbol
	Ginnie Mae I Pool-POOL #432716	o.g	. 09/01/2024 .	PAYDOWN	Otoon	109	109	110	109	(Bcc/cacc)	71001011011	111200	1.0)	0	109	0.000000	0	0.000000	. 50	. 06/01/2026 .	1 /
	Ginnie Mae I Pool-Pool #447236		. 09/01/2024 .	PAYDOWN		37	37	37	37						37					. 06/01/2027 .	1.7
	9. Subtotal - Bonds - U.S. Governmer	nte.	. 09/01/2024 .	PATDOIIN		146	146	147	146	0	0		0		146	0		0	2	XXX	XXX
	Freddie Mac Gold Pool-FG C63727	113	. 09/01/2024 .	PAYDOWN	1	93	93	92	140	0	-	0	5	0	93	0	0	0	1	. 02/01/2032 .	1.1
			. 09/01/2024 .	· ·		93		92		0	5	0	5	0	93				4		1.8
	Freddie Mac Gold Pool-FG C67180			PAYDOWN			98		96	0	2	0	J2	0		ļ	l	0	4	. 05/01/2032 .	1.A
	Freddie Mac Gold Pool-FG C66477		. 09/01/2024 . . 09/01/2024 .	PATUUNN		132	132	134	127	0	5	0	5	0	132			0	5	. 04/01/2032 .	1.A
	Freddie Mac Gold Pool-FG C67402			PAYDOWN		38	38	38	36	0	2	0	2	0	38		0	0	2	. 05/01/2032 .	1.A
	Freddie Mac Gold Pool-FG C68243		. 09/01/2024 . . 09/01/2024 .	PAYDOWN			52	52	28	0	24	0	24	0	52	ļ	l	0	2	. 06/01/2032 .	1.A
	Freddie Mac Gold Pool-FG C78989					430	430		359	0	/1	0	/1	0	430	0	0		16	. 05/01/2033 .	1.A
	Freddie Mac Gold Pool-FG C00860		. 09/01/2024 .	PAYDOWN		168	168	169	150	0	19	0	19	0	168	0	0	0	8	. 09/01/2029 .	1.A
	Freddie Mac Gold Pool-FG C01292		. 09/01/2024 .	PAYDOWN		532	532	534	424	0		0	108	0	532	0	0	0	21	. 02/01/2032 .	1.A
	Freddie Mac Gold Pool-FG C01361		. 09/01/2024 .	PAYDOWN		241	241	243	228	0	13	0	13	0	241	0	0	0	9	. 05/01/2032 .	1.A
	Freddie Mac REMICS-FHR 2333 UZ		. 09/01/2024 .	PAYDOWN		565	565	543	639	0	(74)	0	(74)	0	565	0	0	0	25	. 07/01/2031 .	1.A
	Freddie Mac REMICS-FHR 2329 ZA		. 09/01/2024 .	PAYDOWN	·····	4,200	4,200	3,990	4,589	0	(389)	0	(389)	0	4,200	0	0	0	186	. 06/01/2031 .	1.A
	Freddie Mac REMICS-FHR 2355 CE		. 09/01/2024 .	PAYDOWN	·····	642	642	635	637	0	5	0	5	0	642	0	0	0	2/	. 09/01/2031 .	1.A
	Fannie Mae REMICS-FNR 2001-31 ZC		. 09/01/2024 .	PAYDOWN		3,755		3,770	4,059	0	(303)	0	(303)	0	3,755	0	0	0	168	. 07/01/2031 .	1.A
	United States Internatio-UNSECURED		. 08/27/2024 .	SINKING PAYMENT	·····	78,364	78,364	78,364	78,367	0	(2)	0	(2)	0	78,364	0	0	0		. 02/27/2027 .	1.A
	Virginia Housing Develop-REVENUE BONDS		. 09/25/2024 .	CALL 100		6,740	6,740	6,740	6,728	0	0	0	0	0	6,728	0	12	12	213	. 12/25/2043 .	1.A FE
	9. Subtotal - Bonds - U.S. Special Re	venue		1		96,050	96,050	95,844	96,555	0	(514)	0	(514)		96,038	0	12	· -	4, 169	XXX	XXX
	Banc of America Funding -BAFC 2006-1 1A2		. 09/01/2024 .	PAYDOWN		1,390	1,388		1,373	0	15	0	15	0	1,388	0	0	0	54	. 01/01/2036 .	1.A FM
	Alternative Loan Trust 2-CWALT 2004-J2 3		. 09/01/2024 .	PAYDOWN		1, 108	1, 108	1,090	1, 104	0	4	0	4	0	1,108	0	0	0	41	. 04/01/2034 .	1.A FM
	CHL Mortgage Pass-Throug-CWHL 2005-24 A3		. 09/01/2024 .	PAYDOWN		106	106	98	90	0	15	0	15	0	106	0	0	0	3	. 11/01/2035 .	5.B FM
	ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F		. 09/01/2024 .	PAYDOWN		3,030	4, 199	3,644	2,765	0	1,225	0		0	3,030	0	0	0	75	. 08/01/2037 .	1.A FM
	CONSUMERS ENERGY CO-SECURED		. 08/31/2024 .	MATURITY		1,000,000	1,000,000	998,980	999,877	0	123	0	123	0	1,000,000	0	0	0	31,250	. 08/31/2024 .	1.E FE
	HSI Asset Loan Obligatio-HALO 2007-2 3A6		. 09/01/2024 .	PAYDOWN		0	(69)	(60)	(27)	0	33	0	33	0	0	0	0	0	(1)	. 09/01/2037 .	1.A FM
	JGWPT XXVIII LLC-HENDR 2013-1A A		. 09/16/2024 .	PAYDOWN		5,645	5,645	5,641	5,638	0	7	0	7	0	5,645	0	0	0	121	. 04/15/2067 .	1.A FE
	New York University-UNSECURED		. 07/01/2024 .	CALL 100		54,000	54,000	52,662	53,419	0	(78)	0	(78)	0	53,340	0	660	660		. 07/01/2032 .	1.D FE
	Ross Stores Inc-SENIOR UNSECURED		. 09/15/2024 .	MATURITY		1,000,000	1,000,000	993,290	999,427	0	573	0	573	0	1,000,000	0	0	0	33,750	. 09/15/2024 .	2.A FE
	SC Johnson & Son Inc-SENIOR UNSECURED		. 09/30/2024 .	MATURITY		1,000,000	1,000,000	999,080	999,900	0	100	0	100	0	1,000,000	0	0	0	16,750	. 09/30/2024 .	1.G FE
	Sprint Spectrum Co LLC /-FIRST LIEN		. 09/20/2024 .	SINKING PAYMENT		125,000	125,000	125,000	125,000	0	0	0	0	0	125,000	0	0	0	4,442	. 03/20/2025 .	1.F FE
	9. Subtotal - Bonds - Industrial and Mi	iscella	aneous (Una	affiliated)		3, 190, 279	3,191,377	3,180,782	3,188,566	0	2,017	0	2,017	0	3,189,617	0	660	660	89,312	XXX	XXX
2509999997	7. Total - Bonds - Part 4					3,286,475	3,287,573	3,276,773	3,285,267	0	1,503	0	1,503	0	3,285,801	0	672	672	93,488	XXX	XXX
2509999998	3. Total - Bonds - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2509999999	9. Total - Bonds					3,286,475	3,287,573	3,276,773	3,285,267	0	1,503	0	1,503	0	3,285,801	0	672	672	93,488	XXX	XXX
	7. Total - Preferred Stocks - Part 4					0	XXX	0	0	0	0	0	0	0	0	0		0	0	XXX	XXX
	B. Total - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
	9. Total - Preferred Stocks					0	XXX	0	0	0			0		0	1		0		XXX	XXX
	7. Total - Common Stocks - Part 4					0	XXX	0	0	0	0		0		0			0	0	XXX	XXX
	B. Total - Common Stocks - Part 5				+	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
							XXX	0		^^^	0		0		^^^			0		XXX	XXX
	989999999. Total - Common Stocks											+			1		+				
	9. Total - Preferred and Common Sto	CKS			-	0	XXX	0	0	0	0		0		0			0		XXX	XXX
6009999999	9 - I Otais					3,286,475	XXX	3,276,773	3,285,267	0	1,503	0	1,503	0	3,285,801	0	672	672	93,488	XXX	XXX

Schedule DB - Part A - Section 1 - Options, Caps, Floors, Collars, Swaps and Forwards Open NONE

Schedule DB - Part B - Section 1 - Futures Contracts Open NONE

Schedule DB - Part B - Section 1B - Brokers with whom cash deposits have been made NONE

Schedule DB - Part D - Section 1 - Counterparty Exposure for Derivative Instruments Open NONE

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged By **N O N E**

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged To NONE

Schedule DB - Part E - Derivatives Hedging Variable Annuity Guarantees **N O N E**

Schedule DL - Part 1 - Reinvested Collateral Assets Owned NONE

Schedule DL - Part 2 - Reinvested Collateral Assets Owned NONE

SCHEDULE E - PART 1 - CASH

Month	Fnd	Depository	/ Balances

1	2	3	4	5		lance at End of Eacuring Current Quart		9
			Amount of	Amount of	6	7	8	
			Interest Received	Interest Accrued				
		Rate of	During Current	at Current				
Depository		Interest	Quarter	Statement Date	First Month	Second Month	Third Month	*
Bank of New York Mellon New York, NY					1,665,843	1,963,083	1,434,639	XXX.
PNC Bank Pittsburgh, PA					(1,283,493)	(88,780)	730 , 100	XXX.
Wells Fargo Winston Salem, NC					62,454	62,454	62,331	XXX.
0199998. Deposits in depositories that do not exceed the allowable limit in any one depository (See								
instructions) - Open Depositories	XXX	XXX						XXX
0199999. Totals - Open Depositories	XXX	XXX	0	0	444,804	1,936,757	2,227,070	XXX
0299998. Deposits in depositories that do not								
exceed the allowable limit in any one depository (See	\\\\\	V////						V///
instructions) - Suspended Depositories	XXX	XXX		0	0	•		XXX
0299999. Totals - Suspended Depositories	XXX	XXX	0	0	0	0	0	XXX
0399999. Total Cash on Deposit	XXX	XXX	0	0	444,804	1,936,757	2,227,070	XXX
0499999. Cash in Company's Office	XXX	XXX	XXX	XXX				XXX
0599999. Total - Cash	XXX	XXX	0	0	444,804	1,936,757	2,227,070	XXX

SCHEDULE E - PART 2 - CASH EQUIVALENTS

Charrel	vestments	O		C	7
\sim now ir	wesimenis	C NA/MEM	-na or 0	rrenr (maner

	Show investi	ments Ow	ned End of Current	Quarter				
1	2	3	4	5	6	7	8	9
						Book/Adjusted	Amount of Interest	Amount Received
CUSIP	Description	Code	Date Acquired	Rate of Interest	Maturity Date	Carrying Value	Due and Accrued	During Year
	tal - U.S. Government Bonds	0000	Dato / toquilou	Trace of interest	matarity Date	0	0	0
0309999999. Total - All Other Government Bonds						0	0	0
0509999999. Total - U.S. States, Territories and Possessions Bonds						0	0	0
0709999999. Total - U.S. Political Subdivisions Bonds						0	0	0
0909999999. Total - U.S. Special Revenues Bonds						0	0	0
	tal - Industrial and Miscellaneous (Unaffiliated) Bonds					0	0	0
130999999. Total - Hybrid Securities						0	0	0
1509999999. Tot	tal - Parent, Subsidiaries and Affiliates Bonds					0	0	0
1909999999. Sub	btotal - Unaffiliated Bank Loans					0	0	0
24199999999. Tot	tal - Issuer Obligations					0	0	0
2429999999. Tot	tal - Residential Mortgage-Backed Securities					0	0	0
2439999999. Tot	tal - Commercial Mortgage-Backed Securities					0	0	0
	tal - Other Loan-Backed and Structured Securities					0	0	0
2459999999. Tot	tal - SVO Identified Funds					0	0	0
2469999999. Tot	tal - Affiliated Bank Loans					0	0	0
2479999999. Tot	tal - Unaffiliated Bank Loans					0	0	0
2509999999. Tot	tal Bonds					0	0	0
09248U-71-8 BL	LACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		09/30/2024	0.000		6,077,404	0	
1 8209999999. Sub	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6.077.404	0	29.248
8209999999. Sub	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
8209999999. Sub	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404	0	29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248
	btotal - Exempt Money Market Mutual Funds - as Identified by the SVO					6,077,404		29,248