

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

QUARTERLY STATEMENT

AS OF MARCH 31, 2023 OF THE CONDITION AND AFFAIRS OF THE

MANHATTAN NATIONAL LIFE INSURANCE COMPANY

NAIC Grou		IC Company Code	67083 Employer's ID N	umber 45-0252531
Organized under the Laws of	(Current) (Prior) Ohio	, Sta	ate of Domicile or Port of Entry	ОН
Country of Domicile		United States of Ar	merica	
Licensed as business type:	Life, Accident an	d Health [X] Frate	rnal Benefit Societies []	
Incorporated/Organized	12/20/1956		Commenced Business	01/04/1957
Statutory Home Office	191 Rosa Parks Street			ncinnati, OH, US 45202
	(Street and Number)		(City or Tow	n, State, Country and Zip Code)
Main Administrative Office		191 Rosa Parks S		
Cincin	nati, OH, US 45202	(Otreet and 14an		513-361-9000
(City or Town,	State, Country and Zip Code)		(Area	Code) (Telephone Number)
Mail Address	Post Office Box 5420		Cir	ncinnati, OH, US 45201
(5	Street and Number or P.O. Box)		(City or Tow	n, State, Country and Zip Code)
Primary Location of Books and Record	ds	191 Rosa Parks	Street	
		(Street and Nurr	nber)	540 004 0000
	nati, OH, US 45202 State, Country and Zip Code)		(Area	513-361-9000 Code) (Telephone Number)
(,	····· macamutualos	cend.com	
Internet Website Address		www.massmutualasi	cena.com	
Statutory Statement Contact	Robert Mayhew Earle (Name)			513-361-9077 Area Code) (Telephone Number)
rearle	e@mmascend.com			513-345-9484
	E-mail Address)			(FAX Number)
		OFFICERS	3	
President	Mark Francis Muething		Treasurer	Brian Patrick Sponaugle
Secretary	John Paul Gruber		Appointed Actuary	Dominic Joseph Moster
		OTHER		
Donna Marie Car	relli	Michael Robert F	anning	
	DI	RECTORS OR TI	RUSTEES	
Dominic Lusean E	Blue	Elizabeth Ward C	Chicares	Susan Marie Cicco
Geoffrey James Cra Paul Anthony Lap		Roger William C Sears Andrew I		Michael Robert Fanning Mark Francis Muething
Michael James O'C		Eric William Pa		Arthur William Wallace III
State of	Ohio SS:			
County of H	amilton			
all of the herein described assets we	re the absolute property of the said	reporting entity, free	and clear from any liens or	g entity, and that on the reporting period stated above, claims thereon, except as herein stated, and that this
condition and affairs of the said repor in accordance with the NAIC Annual rules or regulations require differen respectively. Furthermore, the scope	ting entity as of the reporting period st Statement Instructions and Accounting ces in reporting not related to account of this attestation by the described of	ated above, and of it ing Practices and Pro- punting practices are officers also includes	ts income and deductions then ocedures manual except to the od procedures, according to so the related corresponding ele	rue statement of all the assets and liabilities and of the refrom for the period ended, and have been completed extent that: (1) state law may differ; or, (2) that state the best of their information, knowledge and belief, ectronic filing with the NAIC, when required, that is an requested by various regulators in lieu of or in addition
to the enclosed statement.	7	121.	ful-	J/BRZ
Mark Francis Muething President	N.	John Paul Gru Secretary	ber	Brian Patrick Sponaugle Treasurer
Subscribed and sworn to before me to	May 2023		a. Is this an original filing? b. If no, 1. State the amendment i 2. Date filed	number



KELLY BULLER Notary Public, State of Ohio My Commission Expires 10-14-2023

ASSETS

	ASC	SETS			
			Current Statement Date		4
		1	2	3 Net Admitted Assets	December 31 Prior Year Net
		Assets	Nonadmitted Assets	(Cols. 1 - 2)	Admitted Assets
	Bonds	109,362,208		109,362,208	111,899,872
2.	Stocks:				
	2.1 Preferred stocks				0
	2.2 Common stocks			0	0
3.	Mortgage loans on real estate:				
	3.1 First liens			0	0
	3.2 Other than first liens			0	0
4.	Real estate:				
	4.1 Properties occupied by the company (less \$				
	encumbrances)			0	0
	4.2 Properties held for the production of income (less				
	\$ encumbrances)			0	0
	4.3 Properties held for sale (less \$				
	encumbrances)			0	0
-	·				
5.	Cash (\$				
	(\$8,436,607) and short-term				
	investments (\$0)				
6.	Contract loans (including \$ premium notes)			4,359,370	
7.	Derivatives			0	0
8.	Other invested assets				
9.	Receivables for securities	34,288	34,288	0	0
10.	Securities lending reinvested collateral assets			0	0
11.	Aggregate write-ins for invested assets	0	0	0	0
12.	Subtotals, cash and invested assets (Lines 1 to 11)	128,526,112	34,288	128,491,824	130,843,286
13.	Title plants less \$ charged off (for Title insurers				
	only)			0	
14.	Investment income due and accrued			950,309	
	Premiums and considerations:			,	
	15.1 Uncollected premiums and agents' balances in the course of collection	127 759	11 865	115 894	164 846
	15.2 Deferred premiums, agents' balances and installments booked but				
	deferred and not yet due (including \$				
	earned but unbilled premiums)	3 1/0 208	18 062	3 131 146	3 17/ /10
	15.3 Accrued retrospective premiums (\$		10,002		
	contracts subject to redetermination (\$			0	0
40					0
16.	Reinsurance:	040,400		040, 400	005 104
	16.1 Amounts recoverable from reinsurers			848,492	
	16.2 Funds held by or deposited with reinsured companies				
	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				0
18.2	Net deferred tax asset			0	
19.	Guaranty funds receivable or on deposit			95,073	,
20.	Electronic data processing equipment and software			0	0
21.	Furniture and equipment, including health care delivery assets				
	(\$				0
22.	Net adjustment in assets and liabilities due to foreign exchange rates				0
23.	Receivables from parent, subsidiaries and affiliates				
24.	Health care (\$) and other amounts receivable			0	0
25.	Aggregate write-ins for other than invested assets	20	0	20	784
26.	Total assets excluding Separate Accounts, Segregated Accounts and				
	Protected Cell Accounts (Lines 12 to 25)	133,825,582	64,215	133,761,367	136 , 135 , 431
27.	From Separate Accounts, Segregated Accounts and Protected Cell			0	0
00	Accounts				
28.	Total (Lines 26 and 27)	133,825,582	64,215	133,761,367	136, 135, 431
	DETAILS OF WRITE-INS				
1101.					
1102.					
1103.					
1198.	Summary of remaining write-ins for Line 11 from overflow page	0	0	0	0
1199.	Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0	0	0	0
	Miscellaneous receivable	20	0	20	784
2501.					
2501.				l.	
2501. 2502.					
	Summary of remaining write-ins for Line 25 from overflow page				0

LIABILITIES, SURPLUS AND OTHER FUNDS

3102.		·	1	2
1. Approprie reserve for life contributes \$ 95.00 70 ess 8 included in Line 6.3 (michigally according to the Contribute of Metco Reserve). 3. Licibility for depositions or manufacts of the Contributes of Metco Reserve). 4. Life			Current	
General contents of the cont			Statement Date	Prior Year
2 Agregate reserve for company to	1.	Aggregate reserve for life contracts \$		
2 Agregate reserve for company to		(including \$ Modco Reserve)	58,068,730	58,721,823
4. 147 e87 4. 140 e87 5. Projectorized diseases months are a management of diseases and courses and courses are diseases and courses are diseases and courses and courses are diseases and courses and courses are diseases and courses and courses are diseases and	2.	Aggregate reserve for accident and health contracts (including \$ Modco Reserve)	65,947	64,464
1 Lim.	3.	Liability for deposit-type contracts (including \$ Modco Reserve)	2,681,025	2,748,937
4 Acceptor and health and unpaid	4.			
5 Polyonocars disclarablances to members 5 and coupons 5 and coupons 6 and coupons 1. 5 Polyonocars disclarablances of windows characters to members and coupons popular in foliating patentary year -estimated process. 6 Polyonocars and inclinate disclarable to members apportioned for payment (including \$ 1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0		4.1 Life	4, 147, 497	4,490,322
and unypaid. A Provision for prolicyholdron's dividende, influends to momentum and outputne payable in billowing calenters year - estimated B. Pledicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members on included in Line 8 C. Premiums and annulut considerations for 16 and accident and health control in Control i		4.2 Accident and health		
and unypaid. A Provision for prolicyholdron's dividende, influends to momentum and outputne payable in billowing calenters year - estimated B. Pledicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members appentioned for upputned (including \$ 0.000) C. Prolicyholdron's dividends and refunds to members on included in Line 8 C. Premiums and annulut considerations for 16 and accident and health control in Control i	5.	Policyholders' dividends/refunds to members \$ and coupons \$ due		
6. Provision for protection deviced and refunds to members and coupris speakle in toxicating counterly general enterties of the coupris of th		and unpaid		
amounts 6. Policytopicionel dicidende and refunds to members apportioned for payment (including \$ 9,000 6. Pilotytopicionel dicidende and refunds to members and yet apportioned grouping \$ 8,000 7. Amount povisionally refund for deferred dicident glorices not included in the 8 8 7. Amount povisionally refund for deferred dicident glorices and included in the 8 9 8. Premium and annulus consensations on the and accelerate in development accelerate in advance less 9. Premium and annulus consensations on the and accelerate accelerate in advance less 9. Premium and annulus consensations on the and accelerate accelerate in advance less 9. Premium and annulus consensations on the and accelerate accelerate in advance less 9. Provision for excelerate and in petinds, founding the Hability of \$ 90,000 9. Summer values on cancelerate contrades 9. Provision for excelerate adulty elabrids, for the situation of the situation o	6.	Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated		
Motocy	0.			
Motocy		6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$		
6.2 Protopholares dividence and returned to members not yet appointment (including \$ 6.5 Coopins and anilist benefits (including \$ 6.5 Coopins and anilist benefits (including \$ 6.5 Coopins and anilist benefits (included steel where \$ 8.5 Contract distillates not included steel where \$ 9.5 Contract distillates not included \$ 9.5 Contract distillates and included \$ 9.5		Modes)	9 000	9 000
0.3 Couprons and similar brundles forcluding \$ \$				
7. Amount provisionally held for defended dividend policies not included in Line 6 Permittinum and analyst condiscions for life and accident and health controls received in advance less Bernard an analyst condiscions for life and accident and health controls. 9. Provision for appealment of which so in Line of the control of the service of the servic				
8. Promiums and amulty considerations for life and accodent and health contracts received in advance less. 20 941 72,465 9. Confluct liabilities and included desemblers. accodent and health permissions. 29 941 72,465 9.2 Provisions for the production of which S. 3 is for medical loss ratio rebate per the Public Health sopports of which S. 3 is for medical loss ratio rebate per the Public Health sopports of which S. 5,603 5,603 5,003 9.4 Brown Mark Materiance Reserved. 9.4 Brown Materiance Reserved. 2,808,871 2,908,871 2,908,871 2,908,871 2,908,871 2,908,871 2,908,871 2,908,871 2,908,871 2,908,871 3,908,871	7			
\$ discount; including \$ accident and health premiums 23,941 77,465 Contract labilities and included elevation or increased contracts Service Act		, , , , , , , , , , , , , , , , , , ,		
9. Command included elsewhere: 9.1 Summed values on cranerated contracts control in acceptance of the property	8.	Premiums and annuity considerations for line and accident and nealth contracts received in advance less	20.041	70 405
9.1 Summenter values on anneseted contractes 2.2 Provision for expendence arriving relands, including the liability of \$ 2.2 Provision for expendence arriving relands, including \$ 0.5 for medical loss ratio relate per the Public Health experience arriving relands of which \$ 0.5 for medical loss ratio relate per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related per the Public Health 0.5 for medical loss ratio related loss recognized in reserves, red for instanced altoxorances 0.5 for medical depties geras (deseas) 0.5 for defensed las viailibry in recome toxes. Including \$ 0.5 for defensed las viailibry in recome toxes. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibry in recome texts. Including \$ 0.5 for defensed las viailibries and texts. Including \$ 0.5 for defensed las viailibries and texts. Including \$			29,941	12,400
Pay Provision for experience relarge refunds, including the liability of \$	9.			
experience rating refunds of which \$				
Service Act 9.3 Other anomaries payable on reinsurance, including \$				
9.3 Other amounts payable on nensurance, including \$ 0. assumed and \$.54.085 coded on coded of payable on reinsurance, including \$.0. accodent and health		experience rating refunds of which \$0 is for medical loss ratio rebate per the Public Health		
Commissions to agents due or accounced from all amounts of the contract tunds \$ 0.000 and tunds the contract tunds \$ 0.000 and tunds tunds to contract tunds \$ 0.000 and tunds tunds tunds to contract tunds \$ 0.000 and tunds		Service Act		
Commissions to agents due or accounced from all amounts of the contract tunds \$ 0.000 and tunds the contract tunds \$ 0.000 and tunds tunds to contract tunds \$ 0.000 and tunds tunds tunds to contract tunds \$ 0.000 and tunds				
9 Interest Maintenance Reserve 2, 809,671 2, 909,881 1.	1	ceded	54.063	60.098
10. Commissions to agents due or accrued-life and annuity contracts 0.	1			
\$ and deposit-type contract funds \$	10			
1.1 Commissions and expenses allowances payable on reinsurance assumed	10.	\$ and denositatine contract finds \$		n
20 General expenses due or accrued 81,823 81,824	11			
13. Transfers to Separate Accounts due or accrued (net) (including \$ 0. accrued for expense allowances recognized in reverse, not of reinsured allowances) 0.				
allowances recognized in reserves, net of reinsured allowances 0.0 15. Taxes, licenses and frees due or acroued, excluding \$ on realized capital gains (losses) 9.9 76 16. Unrearred investment income 34,00 38,775 17. Amounts whethed or retained by reporting entity as agent or trustee 4,9 13 7,688 18. Amounts held for agental account, including \$ 449,124 agents' credit balances 441,104 429,258 18. Remittaces and items not slicitational equal to progregate excess 1,552,697 1,264,479 19. Labellly for brondits for employees and agents if not included above 20. Dividends to stockholders declared and unpaid interest thereon \$ 21. Labellly for brondits for employees and agents if not included above 22. Dividends to stockholders declared and unpaid interest thereon \$ 23. Dividends to stockholders declared and unpaid interest thereon \$ 24.01 Reservance in unsulhorized and certified (\$) companies 24.01 Reservance in unsulhorized and certified (\$) reinsurers 24.02 Reservance in unsulhorized and certified (\$) reinsurers 24.03 Funds held under reinsurance treates with unsulthorized and certified (\$) reinsurers 24.05 Oratis outstanding 24.06 Oratis outstanding 24.07 Funds held under uninsured plans 24.07 Funds held under coinsurance 24.07 Funds held under uninsured plans 24.07 Funds held under coinsurance 24.07 Funds held under coinsurance 24.08 Funds of the state 24.09 Funds held under coinsurance 24.09 Funds held under coinsurance 24.00 Funds outstanding 24.01 Capable for securities lending 24.01 Capable for securities lending 24.01 Capable for securities lending 24.02 Funds held under coinsurance 24.03 Funds held under coinsurance 25.04 Gaptala fores S 26.05 Funds outstanding	l .		81,823	81,824
14. Taxes, licensees and fees due no accused, excluding federal income taxes .40 .75	13.			_
15.1 Current federal and foreign income taxes, including \$ 0.0				
15.2 Net deferred tax liability		Taxes, licenses and fees due or accrued, excluding federal income taxes	349 , 173	401,431
16. Unament investment income	15.1	Current federal and foreign income taxes, including \$ on realized capital gains (losses)		92,976
17. Amounts withheld or retained by reporting entity as agent of rustee. 4, 913 7, 686 18. Amounts held for agents's coord. Including \$ 448, 124 agents' credit balances 480, 124 429, 286 19. Remittances and items not allocated 1, 552, 887 1, 246, 479 19. Net adjustment in assets and inabilities due to foreign exchange rates 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	15.2	Net deferred tax liability		0
16. Amounts held for agents' account, including \$. 449, 124 agents' credit balances	16.	Unearned investment income	34,200	38,775
16. Amounts held for agents' account, including \$. 449, 124 agents' credit balances	17.	Amounts withheld or retained by reporting entity as agent or trustee	4,913	7,666
19. Remittances and items not allocated 1,552,867 1,246,479	18.			
Net adjustment in assets and liabilities due to foreign exchange rates		Remittances and items not allocated	1 552 867	1 246 479
Liability for benefits for employees and agents if not included above	l l			
22 Borrowed money \$, and the second		
Dividends to stockholders declared and unpaid				
24.0 Miscellaneous liabilities: 24.01 Asset valuation reserve 24.02 Reinsurance in unauthorized and certified (\$) companies 24.03 Fedinsurance in unauthorized and certified (\$) reinsurers 24.04 Payable to parent, subsidiaries and affiliates 110,757				
24.01 Asset valuation reserve	l l	·		
24.02 Reinsurance in unauthorized and certified (\$) companies 24.04 Payable to parent, subsidiaries and affiliates 32.04 Payable to parent, subsidiaries and affiliates 32.05 Payable to parent, subsidiaries and affiliates 32.05 Payable for parent subsidiaries and affiliates 32.05 Payable for securities 32.05 Payable for securities 32.07 Payable 40.07 Payable 40.07 Payable 40.07 Payable 40.07 Payable 40.07 Payable 40.07	24.			
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		24.01 Asset valuation reserve	668,264	891,636
24.04 Payable to parent, subsidiaries and affiliates		24.02 Reinsurance in unauthorized and certified (\$		
24.04 Payable to parent, subsidiaries and affiliates		24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		0
24.05 Drafts outstanding		24.04 Payable to parent, subsidiaries and affiliates	110,757	0
24 06 Liability for amounts held under uninsured plans 24 07 Punds held under coinsurance 24 08 Derivatives 24 08 Derivatives 24 10 Payable for securities 24 11 Capital notes \$ 24 17 Capital notes \$ 3 and interest thereon \$ 25 Aggregate write-ins for liabilities excluding Separate Accounts business (Lines 1 to 25) 27 From Separate Accounts Statement 30 Total liabilities excluding Separate Accounts business (Lines 1 to 25) 31 Total liabilities (Lines 26 and 27) 32 Total liabilities (Lines 26 and 27) 33 Oggregate write-ins for liabilities 34 Surplus notes 35 Surplus notes 36 Surplus notes 37 Surplus notes 38 Less treasury stock, at cost 39 Surplus fortal (Lines 310 through 313) and 11 Separate Accounts Value included in Line 29 \$ 36 Surplus (Total Lines 31+32+33+34+35-30) (including \$ 36 Total so Lines 32 and 33 (Page 2, Line 28, Col. 3) 39 DETAILS OF WRITE-INS 30 DETAILS OF WRITE-INS 30 DETAILS OF WRITE-INS 30 DETAILS OF WRITE-INS 310 DETAILS OF WRITE-INS 310 DETAILS OF WRITE-INS 310 Unassigned fund gwite-ins for Line 25 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 31 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 310 Oggregate write-ins for Line 34 from overflow page 3		24 05 Drafts outstanding	,	
24 07 Funds held under coinsurance				
24 09 Payable for securities				
24 09 Payable for securities 22,784 0 24 10 Payable for securities lending 24.11 Capital notes \$ 453,391 401,184 25. Aggregate with-ins for liabilities 453,391 401,184 27. Total liabilities excluding Separate Accounts business (Lines 1 to 25) 117,946,848 120,023,437 27. From Separate Accounts Statement 0 28. Total liabilities (Lines 28 and 27) 117,946,848 120,023,437 29. Common capital stock 2,500,000 2,500,000 30. Preferred capital stock with a contributed surplus funds 0 0 31. Aggregate write-ins for other than special surplus funds 0 0 32. Surplus notes 30. Gross paid in and contributed surplus 312,467,867 312,467,867 34. Aggregate write-ins for special surplus funds 0 0 0 34. Aggregate write-ins for special surplus funds 0 0 0 35. Unassigned funds (surplus) (119,153,388) (118,855,883) 36. Less treasury stock, at cost: 0 0 0 36. 1 shares preferred (value included in Line 29 \$ 0 0 36. 2 shares preferred (value included in Line 30 \$ 13			, ,	, ,
24.10 Payable for securities lending 24.11 Capital notes \$ 3.31 3.01				
24.11 Capital notes \$ and interest thereon \$ 453.391 401.184 25. Aggregate writer-ins for liabilities 117,946,848 120,023,437 27. From Separate Accounts Statement 0 0.78 28. Total liabilities (excluding Separate Accounts Statement) 117,946,848 120,023,437 29. Common capital stock 2,500,000 2,500,000 2,500,000 30. Preferred capital stock 0 0 0 31. Aggregate write-ins for other than special surplus funds 0 0 32. Surplus notes 0 0 0 33. Gross paid in and contributed surplus 132,467,887 132,467,887 34. Aggregate write-ins for special surplus funds 0 0 0 35. Unassigned funds (surplus) (119,153,368) (119,153,368) (118,855,883) 36. Less treasury stock, at cost: 36.1 shares common (value included in Line 29 \$) 0 0 36.1 shares preferred (value included in Line 30 \$) 0 0 0 36.2 shares preferred (value included in Line 30 \$) 13,314,519 13,314,519 13,611,934 37. Totals of Lines 29, 30 and 37 15,814,519 16				
25. Aggregate write-ins for liabilities 453,391 401,184 26. Total liabilities excluding Separate Accounts business (Lines 1 to 25) 117,946,848 120,023,437 27. From Separate Accounts Statement 0 0 28. Total liabilities (Lines 26 and 27) 117,946,848 120,023,437 29. Common capital stock 2,500,000 2,500,000 30. Preferred capital stock 0 0 31. Aggregate write-ins for other than special surplus funds 0 0 32. Surplus notes 0 0 33. Gross paid in and contributed surplus 132,467,887 132,467,887 34. Aggregate write-ins for special surplus funds 0 0 35. Less treasury stock, at cost: (119,153,398) (118,855,883) 36. shares spreferred (value included in Line 29 \$) (119,153,398) (118,855,883) 36. shares preferred (value included in Line 29 \$)) 0 0 37. Surplus (Total Lines 31,322,437,347,455-36) (including \$ including \$ including \$ including \$ including \$ incl		,		
Total liabilities excluding Separate Accounts business (Lines 1 to 25) 117,946,848 120,023,437 127, From Separate Accounts Statement 0 0 0 0 0 0 0 0 0 0		·		
From Separate Accounts Statement	25.		,	
Total liabilities (Lines 26 and 27)	26.	Total liabilities excluding Separate Accounts business (Lines 1 to 25)	117,946,848	120,023,437
Total liabilities (Lines 26 and 27)	27.	From Separate Accounts Statement		0
29. Common capital stock 2,500,000 2,500,000 30. Preferred capital stock 0 0 0 0 0 0 0 0 0	l l	·		
30 Preferred capital stock			2.500.000	, ,
31 Aggregate write-ins for other than special surplus funds 0 0 0 0 0 0 0 32 Surplus notes 0 0 0 0 0 0 0 0 0		·		
33				
33. Gross paid in and contributed surplus .132, 467, 887 .132, 467, 887 34. Aggregate write-ins for special surplus funds .0 .0 35. Unassigned funds (surplus) .(119, 153, 368) .(118, 855, 893) 36. Less treasury stock, at cost:				
34. Aggregate write-ins for special surplus funds 0 0 0 35. Unassigned funds (surplus) (119, 153, 368) (118,855,893) 36. Less freasury stock, at cost: (119, 153, 368) (118,855,893) 36. Less freasury stock, at cost: (119, 153, 368) (118,855,893) 36. 2 shares preferred (value included in Line 30 \$) 0 0 37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement) 13,314,519 13,611,994 38. Totals of Lines 29, 30 and 37 15,814,519 16,111,994 39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431 DETAILS OF WRITE-INS 2501. Unclaimed funds 453,391 401,184 2502. 2503 453,391 401,184 3101. 3101. 3101. 3101. 3101. 3101. 3102. 3101. 3101. 3102. 3101. 3101. 3102. 3101. 3101. 3102. 3103.				
35. Unassigned funds (surplus) 36. Less treasury stock, at cost: 36. 1		Oroso para III alia Cutilituatea surpias	,407,007	
36. Less treasury stock, at cost: 36.1 shares common (value included in Line 29 \$		Aggregate write-ins or special surplus futilities	U	U
36.1			(119,153,368)	(118,855,893)
36.2 shares preferred (value included in Line 30 \$) 0 0 37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement) 13,314,519 13,611,994 38. Totals of Lines 29, 30 and 37 15,814,519 16,111,994 39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431 DETAILS OF WRITE-INS 2501. Unclaimed funds .453,391 .401,184 2502.	36.	Less treasury stock, at cost:		<u>-</u>
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement) 13,314,519 13,611,994 38. Totals of Lines 29, 30 and 37 15,814,519 16,111,994 39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431 DETAILS OF WRITE-INS 2501. Unclaimed funds 453,391 401,184 2502. Summary of remaining write-ins for Line 25 from overflow page 0 0 2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above) 453,391 401,184 3101. 3102. 3103. 3103. 3103. 3198. Summary of remaining write-ins for Line 31 from overflow page 0 0 0 3401. 3402. 3403. 3198. Summary of remaining write-ins for Line 31 from overflow page 0 0 0 3403. 3403. Summary of remaining write-ins for Line 34 from overflow page 0 0 0 3498. Summary of remaining write-ins for Line 34 from overflow page 0 0 0	1			
38. Totals of Lines 29, 30 and 37 15,814,519 16,111,994 39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431 DETAILS OF WRITE-INS 2501. Unclaimed funds .453,391 401,184 2502. 2503	1			
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431	37.	Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)		
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3) 133,761,367 136,135,431	38.	Totals of Lines 29, 30 and 37	15,814,519	16,111,994
DETAILS OF WRITE-INS 2501. Unclaimed funds .453,391 .401,184 2502		·		
2501. Unclaimed funds 453,391 401,184 2502			,,	. ,,
2502.	2501		∆53 301	401 19 <i>4</i>
2503.			· ·	
2598. Summary of remaining write-ins for Line 25 from overflow page 0 .0 2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above) 453,391 401,184 3101.				
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above) 453,391 401,184 3101.				
3101		, a		
3102. 3103. 3198. Summary of remaining write-ins for Line 31 from overflow page			,	·
3103. 3198. Summary of remaining write-ins for Line 31 from overflow page 0 0 3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 0 0 3401. 3402. 3403.	3101.			
3198. Summary of remaining write-ins for Line 31 from overflow page	3102.			
3198. Summary of remaining write-ins for Line 31 from overflow page				
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above) 0 0 3401.		Summary of remaining write-ins for Line 31 from overflow page	0	0
3401		, a		0
3402.				
3403.	l l			
3498. Summary of remaining write-ins for Line 34 from overflow page0	l .			
	l .			
1 3499. I otals (Lines 3401 through 3403 plus 3498)(Line 34 above)	l l	, a		
	3499.	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			4,835,795
	Net investment income	839,013	798,392	3,441,232
4.	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	0 450 000
9. 10.	Totals (Lines 1 to 8.3) Death benefits	2,245,749	2,240,016	9,156,666 8,095,271
11.	Matured endowments (excluding guaranteed annual pure endowments)	660		146
12.	Annuity benefits	403,591		668 , 120
13. 14.	Disability benefits and benefits under accident and health contracts			0
15.	Surrender benefits and withdrawals for life contracts			2,514,608
16.	Group conversions			0
17. 18.	Interest and adjustments on contract or deposit-type contract funds			23,268
19.	Increase in aggregate reserves for life and accident and health contracts	(651,610)	(1,576,490)	(3,978,589)
20.	Totals (Lines 10 to 19)	1,920,643	2,182,353	7,322,824
21.	Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	55 903	52 762	214 , 151
22.	Commissions and expense allowances on reinsurance assumed			0
23.	General insurance expenses and fraternal expenses	312,705	358,676	1,315,007
24. 25.	Insurance taxes, licenses and fees, excluding federal income taxes	80,697	107,266	474,728
26.	Net transfers to or (from) Separate Accounts net of reinsurance			
27.	Aggregate write-ins for deductions	0	0	506,212
28.	Totals (Lines 20 to 27)	2,368,244	2,700,927	9,832,739
29.	Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	(122,495)	(460,911)	(676,073)
30.	Dividends to policyholders and refunds to members	5,660	6,039	22,697
31.	Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(128 155)	(466 950)	(698 770)
32.	Federal and foreign income taxes incurred (excluding tax on capital gains)	(83,908)	(127,948)	(333,358)
33.	Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	(44.247)	(220, 002)	(265, 412)
34.	Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital	(44,247)	(339,002)	(303,412)
	gains tax of \$(124,661) (excluding taxes of \$(13,017)			
0.5	transferred to the IMR)	(481,707)	(16)	(9,083)
35.	Net income (Line 33 plus Line 34) CAPITAL AND SURPLUS ACCOUNT	(525,954)	(339,018)	(374,495)
36.	Capital and surplus, December 31, prior year	16,111,994	13,092,658	13,092,658
37.	Net income (Line 35)	(525,954)		(374,495)
38.	Change in net unrealized capital gains (losses) less capital gains tax of \$			
39. 40.	Change in net unrealized foreign exchange capital gain (loss)			(2,542,614)
41.	Change in nonadmitted assets	5,108	15,641	1,243,604
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	223.372	8.819	(344.147)
45.	Change in treasury stock			
46.	Surplus (contributed to) withdrawn from Separate Accounts during period			
47. 48.	Other changes in surplus in Separate Accounts Statement			
49.	Cumulative effect of changes in accounting principles			
50.	Capital changes:			0
	50.1 Paid in			U
	50.3 Transferred to surplus			
51.	Surplus adjustment: 51.1 Paid in	0	0	£ 000 000
	51.2 Transferred to capital (Stock Dividend)			
	51.3 Transferred from capital			
50	51.4 Change in surplus as a result of reinsurance			
	Dividends to stockholders	0	0	00
54.	Net change in capital and surplus for the year (Lines 37 through 53)	(297,475)	(371,309)	
55.	Capital and surplus, as of statement date (Lines 36 + 54)	15,814,519	12,721,349	16,111,994
08.301	DETAILS OF WRITE-INS			
08.398.	Summary of remaining write-ins for Line 8.3 from overflow page		0	0 0
2701.	Reinsurance administration agreement expense	0		
2702.				
	Summary of remaining write-ins for Line 27 from overflow page			
	Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	0	0	506,212
5301.				- /
	Summary of remaining write-ins for Line 53 from overflow page			
5399.	Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	0	0	0

		1 Current Year	2 Prior Year	3 Prior Year Ended
		To Date	To Date	December 31
	Cash from Operations			
1.	Premiums collected net of reinsurance			
2.	Net investment income			
3.	Miscellaneous income	,	120,829	534,882
4.	Total (Lines 1 to 3)	, , ,	2,433,097	8,650,089
5.	Benefit and loss related payments			
6.	Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts			
7.	Commissions, expenses paid and aggregate write-ins for deductions			
8.	Dividends paid to policyholders	1,791	1,921	6, 101
9.	Federal and foreign income taxes paid (recovered) net of \$(137,678) tax on capital			
	gains (losses)		0	(562,866
10.	Total (Lines 5 through 9)		5,298,171	13,629,613
11.	Net cash from operations (Line 4 minus Line 10)	(1,309,562)	(2,865,074)	(4,979,524
	Cash from Investments			
12.	Proceeds from investments sold, matured or repaid:			
	12.1 Bonds			
	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	(36
	12.7 Miscellaneous proceeds		0	0
	12.8 Total investment proceeds (Lines 12.1 to 12.7)	5,853,325	1,252,403	8,831,234
13.	Cost of investments acquired (long-term only):			
	13.1 Bonds	3,884,480	13,825,914	14,016,958
	13.2 Stocks	0	0	0
	13.3 Mortgage loans	0	0	0
	13.4 Real estate	0	0	0
	13.5 Other invested assets	0	0	0
	13.6 Miscellaneous applications	0	799,438	1,002,961
	13.7 Total investments acquired (Lines 13.1 to 13.6)	3,884,480	14,625,352	15,019,919
14.	Net increase (or decrease) in contract loans and premium notes	(49, 147)	(181,759)	(320, 109
15.	Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	2,017,992	(13, 191, 190)	(5,868,576
	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	5,000,000
	16.3 Borrowed funds	0	0	0
	16.4 Net deposits on deposit-type contracts and other insurance liabilities	(80,367)	326,485	1,275,548
	16.5 Dividends to stockholders	0	0	0
	16.6 Other cash provided (applied)	(392,714)	(1,624,966)	(3,868,471
17.	Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	(473,081)	(1,298,481)	2,407,077
	· · · · · · · · · · · · · · · · · · ·			, ,
	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) .	235,349	(17,354,745)	(8,441,023
19.	Cash, cash equivalents and short-term investments:			
	19.1 Beginning of year	14,534,897	22,975,920	22,975,920
	19.2 End of period (Line 18 plus Line 19.1)	14,770,246	5,621,175	14,534,897
	upplemental disclosures of cash flow information for non-cash transactions: O1. Bond conversions and refinancing	<u> </u>		238,116
_0.00	some some and to make ing			

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS

	DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS 1 2 3					
		Current Year	Prior Year	Prior Year Ended		
		To Date	To Date	December 31		
1.	Industrial life			0		
2	Ordinary life insurance	2 770 224	2 925 429	11 470 400		
2.						
3.	Ordinary individual annuities	41,531	28,939	125,989		
4.	Credit life (group and individual)			0		
5.	Group life insurance		0	0		
6.	Group annuities		0	0		
7.	A & H - group		0	0		
8.	A & H - credit (group and individual)			0		
9.	A & H - other	16,808	12,567	69,530		
10.	Aggregate of all other lines of business	0	0	0		
11.	Subtotal (Lines 1 through 10)	2,837,663	2,866,944	11,666,009		
12.	Fraternal (Fraternal Benefit Societies Only)			0		
13.	Subtotal (Lines 11 through 12)	2,837,663	2,866,944	11,666,009		
14.	Deposit-type contracts	0	0	0		
15.	Total (Lines 13 and 14)	2,837,663	2,866,944	11,666,009		
	DETAILS OF WRITE-INS					
1001.						
1002.						
1003.						
1098.	Summary of remaining write-ins for Line 10 from overflow page	0	0	0		
1099.	Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)	0	0	0		

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	Mar	March 31, 2023		mber 31, 2022
(1) State basis	\$	(525,954)	\$	(374,495)
(2) State prescribed practices that increase/(decrease) NAIC SAP		-		-
(3) State permitted practices that increase/(decrease) NAIC SAP		-		-
(4) NAIC SAP	\$	(525,954)	\$	(374,495)
Surplus				
(5) State basis	\$	15,814,519	\$	16,111,994
(6) State prescribed practices that increase/(decrease) NAIC SAP		-		-
(7) State permitted practices that increase/(decrease) NAIC SAP		-		-
(8) NAIC SAP	\$	15,814,519	\$	16,111,994

B, C & D - No significant changes.

Note 2 - Accounting Changes and Corrections of Errors

Not applicable.

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	OTTICharge			
	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
126694LC0	100.912	100.912		100.912	68.541	3/31/2023

- (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	\$3,558,439
2. 12 months or longer	1,678,568

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

 Less than 12 months 	\$56,906,969
2. 12 months or longer	25,243,271

- (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 March 31, 2023. 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 Not applicable.
- 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 MMALIC. MNH is a wholly-owned subsidiary of 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.

The Company did not pay or receive federal income tax payments in cash to or from MMALIC.

- D. The Company reported \$110,757 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 \$44,291,500 as of March 31, 2023 and \$37,437,537 as of December 31, 2022. 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 \$8,913 for the three months ended March 31, 2023 and \$32,941 for the year ended December 31, 2022.

- 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 March 31, 2023.

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.

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	\$ 1,546,590	\$ 1,601,931	\$ -	\$ 1,546,590	\$ -	\$ -	\$ -
States, territories and possessions	3,739,850	2,717,930	-	3,739,850	-	-	-
Special revenue	10,519,213	10,306,387	-	10,519,213	-	-	-
Industrial and miscellaneous	90,672,766	94,735,960	-	90,672,766	-	-	-
Total bonds	\$106,478,419	\$109,362,208	\$ -	\$ 106,478,419	\$ -	\$ -	\$ -
Cash and cash equivalents	14,770,246	14,770,246	14,770,246	-	-	-	-
Policy loans	4,359,370	4,359,370	-	-	4,359,370	-	-
Total financial assets	\$125,608,035	\$128,491,824	\$ 14,770,246	\$ 106,478,419	\$ 4,359,370	\$ -	\$ -

- 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 requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act?						Yes [No [X]
1.2	If yes, has the report been filed with the domiciliary state?						Yes [No []
2.1	Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity?							No [X]
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 qu	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 group?						Yes [No [X]
3.5	If the response to 3.4 is yes, provide the CIK (Central Index Key) coo	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	۱? ۱] No [2	(] N/A []
6.1	1 State as of what date the latest financial examination of the reporting entity was made or is being made						12/3	1/2021
6.2	2 State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released						12/3	1/2016
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	he examination (bal	ance shee	et	01/1	1/2018
6.4	By what department or departments? Ohio Department of Insurance							
6.5	Have all financial statement adjustments within the latest financial extatement filed with Departments?	kamination report	been accounted for in a	subsequent financi	al .	/es [1 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]
7.1	Has this reporting entity had any Certificates of Authority, licenses or revoked by any governmental entity during the reporting period?	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								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 Deposi			
	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		N0	NO	N0	YES	
	MM Ascend Life Investor Services LLC		Δ		NO		YES	
	MML Distributors LLC		Α			N0 N0	YES YES	
	MML Investment Advisors LLC	Springfield, M.	A	N∪ N∩			YES	
	MML Strategic Distributors LLC		A		NO		YES	
	The MassMutual Trust Company OCC	Enfield, CT		N0	YES	N0	NO	
	Flourish Financial IIC	Now Vork MV		NO	NO	NO	VEC	

GENERAL INTERROGATORIES

9.1	 (a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between per relationships; (b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the report (c) Compliance with applicable governmental laws, rules and regulations; (d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and 	sonal and professional	. Yes [X] No []
9.11	(e) Accountability for adherence to the code. If the response to 9.1 is No, please explain:			
9.2 9.21	Has the code of ethics for senior managers been amended?] 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 of the page 2 amounts receivable from parent included in the Page 2 amount:			
	INVESTMENT			
	Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or other assets of the reporting entity loaned, placed under option agreement, or other use by another person? (Exclude securities under securities lending agreements.) If yes, give full and complete information relating thereto:		Yes [] No [X]
12.	Amount of real estate and mortgages held in other invested assets in Schedule BA:		6	
13. 14.1	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		2
		Prior Year-End Book/Adjusted Carrying Value	Е	Current Quarter Book/Adjusted Carrying Value
	Bonds			
	Common Stock			
	Short-Term Investments			
	Mortgage Loans on Real Estate			
	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	[] No] No [X] [] N/A [X]
16.	For the reporting entity's security lending program, state the amount of the following as of the current statement date	e:		_
	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, F16.3 Total payable for securities lending reported on the liability page.			_

GENERAL INTERROGATORIES

		dial or Safekeeping Agreements requirements of the NAIC Finan						[X] No [
1 Name of Custodian(s)			2 Custodian Address					
Bank of New York Me								
For all agreements th location and a comple		th the requirements of the NAIC	C Financial Condi	ion Examiners	Handbook, p	rovide the name,		
1 Name	(s)	2 Location(s)		Co	3 mplete Expla	nation(s)		
			. (.) 11 (15 11 4					1 N T V
f yes, give full informa		name changes, in the custodia o:	in(s) identified in 1	7.1 during the C	current quarte	FF?	res (] No [X
1 Old Cust	odian	2 New Custodian	Date o	3 f Change		4 Reason		
make investment dec	isions on behalf of	vestment advisors, investment r the reporting entity. For assets the ment accounts"; "handle sect	that are managed					
Barings LLC	Name of Firm	or Individual	Affiliati					
17.5097 For those firr	ms/individuals listed	I in the table for Question 17.5, more than 10% of the reporting	do any firms/indiv	 riduals unaffiliat			Yes	[] No []
		with the reporting entity (i.e. de aggregate to more than 50% o					Yes	[] No [
For those firms or ind table below.	ividuals listed in the	e table for 17.5 with an affiliation	n code of "A" (affil	ated) or "U" (ur	naffiliated), pr	ovide the information for t	he	
1		2		3		4		5 Investment Management
Central Registration Depository Number		Name of Firm or Individual		Legal Entity Ide	entifier (LEI)	Registered With		Agreement (IMA) Filed
106006	Barings LLC	Name of Firm or Individual		49300G36F1EZS4		SEC		OS
Have all the filing requiff no, list exceptions:	uirements of the Pu	rposes and Procedures Manua	I of the NAIC Inve	stment Analysis	o Office been	followed?	Yes	[X] No [
a. Documentation security is not b. Issuer or obligor. The insurer ha	n necessary to pern available. or is current on all c s an actual expecta	porting entity is certifying the foliait a full credit analysis of the secontracted interest and principal tion of ultimate payment of all coordinates?	ecurity does not ex I payments. contracted interes	cist or an NAIC	CRP credit ra	ating for an FE or PL	Yes	[] No [
a. The security was b. The reporting e c. The NAIC Design	as purchased prior to the price of the properties of the propertie	reporting entity is certifying the fo January 1, 2018. tal commensurate with the NAI of from the credit rating assignated by the insurer and available for the to share this credit rating of the PLGI securities?	C Designation rep d by an NAIC CRF for examination by ne PL security with	orted for the se in its legal cap state insuranc the SVO.	curity. pacity as a NF e regulators.	RSRO which is shown	Ves	[] No [
 d. The reporting e 	ty self-designated F						103	[] NO [
 d. The reporting e Has the reporting enting By assigning FE to a FE fund: 	Schedule BA non-r	egistered private fund, the repo	orting entity is certi	fying the followi	ng elements	of each self-designated		
d. The reporting e Has the reporting enti By assigning FE to a FE fund: a. The shares wer b. The reporting e c. The security ha January 1, 2019 d. The fund only o e. The current rep	Schedule BA non-re purchased prior to the purchased prior to the prior	egistered private fund, the report of January 1, 2019. Ital commensurate with the NAI (ing(s) with annual surveillance and bonds in its portfolio.	C Designation repassigned by an N	orted for the se AIC CRP in its I	curity. egal capacity	as an NRSRO prior to		

GENERAL INTERROGATORIES

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

Life and	d 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	82.075 %
	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

Chawina All	Now Poincuronce	Trootion C	urrent Year to Date
SHOWING AII	New Remsulance	Healles - C	uneni teallo Dale

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
									····
									····
									·····

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS Current Year To Date - Allocated by States and Territories

		arrent rear	To Bate 7 tilooc	ated by States a		iness Only		
		1		ntracts	4	5	6	7
			2	3	Accident and			
					Health Insurance Premiums,			
		Active			Including Policy,		Total	
	States, Etc.	Status (a)	Life Insurance Premiums	Annuity Considerations	Membership and Other Fees	Other Considerations	Columns 2 Through 5	Deposit-Type Contracts
1.	Alabama AL	L	12,444	Considerations	and Other rees	Considerations	12.444	Contracts
2.	Alaska AK	L	2.446				2.446	
3.	Arizona AZ	L	12,413				12,413	
4.	Arkansas AR	L	25,665				25,665	
5.	California CA	L	334,277	355			334,632	
6.	Colorado CO	L	36,849				36,849	
7.	Connecticut CT	L	24,215				24,215	
8.	Delaware DE	L	10, 171				10, 171	
9.	District of Columbia DC	L	1,770				1,770	
10.	Florida FL		214,866	361	14,815		230,042	
11.	Georgia GA	L	77, 121	500	203		77,824	
12.	Hawaii HI	L	10,981 6.514				10,981 6.514	
13.	Idaho ID	L		4 694				
14. 15.	Illinois IL Indiana IN	LL		1.045				
16.	lowa IA	LL		1,043	84		34.010	
17.	Kansas KS	L		543	04		42,908	
18.	Kentucky KY	L	26,056				26,056	
19.	Louisiana LA	L	48.800				48.800	
20.	Maine ME	L	16,372				16,372	
21.	Maryland MD	L	116,104				116,104	
22.	Massachusetts MA	L	61,640				61,640	
23.	Michigan MI	L	129,468	3,268	143		132,879	
24.	Minnesota MN	L	157,229	7 , 150			164,379	
25.	Mississippi MS	L	40,582	360			40,942	
26.	Missouri MO	L	82,232	7,207			89,439	
27.	Montana MT	L	3,746				3,746	······
28.	Nebraska NE	L					10,405	
29. 30.	New Hampshire	L					22,810	
30. 31.	New Jersey NJ							
32.	New Mexico NM	L	9.462		223		9.685	
33.	New York	N					15,100	
34.	North Carolina	L	66,219				66,219	
35.	North Dakota ND	L	27,314				27,314	
36.	Ohio OH	L	65,953	45	43		66,041	
37.	Oklahoma OK	L	18,757				18,757	
38.	Oregon OR	L	26,683				26,683	
39.	Pennsylvania PA	L	93 , 160		110		93,269	
40.	Rhode Island RI	L	2,866				2,866	
41.	South Carolina SC		41, 113	90			41,203	
42.	South Dakota	L	3,603				3,603	
43.	Tennessee TN	L	71,572	450	155 135		71,727	
44.	Texas TX	L	174,902	150 71	133		175 , 186	
45.	Otan O1	L	4.891	/۱			4,891	
46. 47.	Vermont	L	63,468					
48.	Washington WA	LL	23,230				23,230	
49.	West Virginia WV	L	7,354				7,354	
50.	Wisconsin WI	L	258.777	15,692	603		275,071	
51.	Wyoming WY	L	6,363				6,363	
52.	American Samoa AS	N					0	
53.	Guam GU	N					0	
54.	Puerto Rico PR	N					0	
55.	U.S. Virgin Islands VI	N					0	
56.	Northern Mariana Islands MP	N					0	
57.	Canada CAN	N					0	
58.	Aggregate Other Aliens OT	XXX	348	0	0	0	348	0
59.	Subtotal	XXX	2,799,588	41,531	16,614	0	2,857,733	0
90.	Reporting entity contributions for employee benefits plans	YYY					n	
91.	Dividends or refunds applied to purchase paid-up	^^^						
".	additions and annuities	XXX					0	
92.	Dividends or refunds applied to shorten endowment							
	1 1 3 1 1	XXX					0	
93.	Premium or annuity considerations waived under	V////						
94.	disability or other contract provisions	XXX		0	0	0	0	
94. 95.	Totals (Direct Business)		2 836 047	41,531		0	2,894,192	0
95. 96.	Plus Reinsurance Assumed			41,331	10,014		0	
97	Totals (All Business)			41,531	16,614	0	2,894,192	0
98.	Less Reinsurance Ceded			18,689	15,454		1,636,949	
99.	Totals (All Business) less Reinsurance Ceded	XXX	1,233,241	22,842	1,160	0	1,257,243	0
	DETAILS OF WRITE-INS							
58001.	Other Alien	XXX	348				348	
58002.								
58003.		XXX						
58998.	Summary of remaining write-ins for Line 58 from	100:	_	_	_	_	_	_
FORCE	overflow page	XXX	0	0	0	0	0	0
58999.	Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)	XXX	348	0	0	0	348	0
9401.	58998)(Line 58 above)	XXX	340	0	0	0	346	0
9401. 9402.		XXX XXX						
		XXX						
l .	Summary of remaining write-ins for Line 94 from	////						
		XXX	0	0	0	0	0	0
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line							
(-) • ::	94 above)	XXX	0	0	0	0	0	0
(a) Active	Status Counts:							

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 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 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
JFIN Parent LLC Jefferies Finance LLC	None		Delaware
	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
JFIN Fund III 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
Jefferies Credit Partners LLC	None	Delaware
APEX Credit Partners LLC	None	Delaware
Jefferies Credit Management LLC	None	Delaware
JCP Direct Lending CLO 2022 LLC	None	Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF	None	Luxembourg
Jefferies Credit Management Holdings LLC	None	Delaware
Senior Credit Investments, LLC	None	Delaware
JDLF GP (Europe) S.a.r.l	None	Luxembourg
JFAM GP LLC	None	Delaware
JFAM GP LP	None	Delaware
Jefferies Direct Lending Fund C LP	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 II C Holdings LLC	None	Delaware
Jefferies Direct Lending Fund II C SPE LLC	None	Delaware
Jefferies Private Credit BDC Inc.	None	Maryland
Jefferies Senior Lending LLC	None	Delaware
Jefferies Credit Partners BDC Inc	None	Maryland
JFIN Revolver Holdings LLC	None	Delaware
JFIN Revolver Holdings II LLC	None	Delaware
JFIN Revolver Holdings IV 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, SCSp	None	Luxembourg
Jefferies Finance Business Credit LLC	None	Delaware
JFIN Business Credit Fund I LLC	None	Delaware
JFIN Funding 2021 LLC	None	Delaware
JFIN High Yield Investments 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-III Ltd. JFIN Revolver CLO 2018 Ltd.	None None	Cayman Islands Cayman Islands
JFIN Revolver CLO 2018 Ltd. JFIN Revolver CLO 2019 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019 Ltd. JFIN Revolver CLO 2019-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2019-11 Etd. JFIN Revolver CLO 2020 Ltd.	None	Cayman Islands
JFIN Revolver CLO 2020 Ltd. JFIN Revolver CLO 2021-II Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-11 Ltd. JFIN Revolver CLO 2021-V Ltd.	None	Cayman Islands
JFIN Revolver CLO 2021-V Etd. JFIN Revolver CLO 2022-II Ltd.	None	Cayman Islands
STANCOUNCE CLO 2022-II Liu.	TOIL	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.

	Federal Tax ID	NAIC Co Code	State of Domicile
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	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
SFL Parkway Funding 2022 LLC	None		Delaware
JCP Private Loan Management GP LLC	None		Delaware
JCP Private Loan Management LP	None		Delaware
Beauty Brands Acquisition Holdings LLC	None		Delaware
Beauty Brands Acquisition LLC	None		Delaware
Beauty Brands Acquisition Intermediate LLC	None		Delaware
Forma Brands, LLC	None		Delaware
Apex Credit Holdings LLC	None		Delaware
JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2013 Ltd.	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands
JFIN CLO 2014-II Ltd.	None		Cayman Islands
JFIN CLO 2015 Ltd.	None		Cayman Islands
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
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		Kentucky
Annuity Investors Life Insurance Company		93661	Ohio
MM Ascend Life Investor Services, LLC	31-1395344		Ohio
MM Ascend Mortgage Lending LLC	31-1395344		Ohio
Manhattan National Holding, LLC	26-3260520		Ohio
Manhattan National Life Insurance Company		67083	Ohio
MassMutual Mortgage Lending LLC	None		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
Massimular ventures Chinate Technology Fund LLP	None		

^{*}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.

	E 1 1E ID 31470	100	Ct. t. CD. t. II
	Federal Tax ID NAIC	Co Code	State of Domicile
MM Direct Private Investments UK Limited	None		United Kingdom
DPI-ACRES Capital 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 2014-A	36-4785301		Delaware
MMAF Equipment Finance LLC 2014-A MMAF Equipment Finance LLC 2017-A	35-2590691		Delaware
MMAF Equipment Finance LLC 2017-A MMAF Equipment Finance LLC 2017-B	32-0546197		Delaware
MMAF Equipment Finance LLC 2017-B MMAF Equipment Finance LLC 2018-A	82-5335801		Delaware
MMAF Equipment Finance LLC 2019-A	83-3722640		Delaware
MMAF Equipment Finance LLC 2019-A MMAF Equipment Finance LLC 2019-B	None		Delaware
MMAF Equipment Finance LLC 2019-B MMAF Equipment Finance LLC 2020–A	None		Delaware
MMAF Equipment Finance LLC 2020–A MMAF Equipment Finance LLC 2020–B	None		Delaware
MMAF Equipment Finance LLC 2020–B MMAF Equipment Finance LLC 2021-A	None		Delaware
MMAF Equipment Finance LLC 2021-A MMAF Equipment Finance LLC 2022–A	None		Delaware
	None		Delaware
MMAF Equipment Finance LLC 2022–B Rozier LLC	None		Delaware
MML Management Corporation	None 04-2443240		Massachusetts
Mini Management Corporation MassMutual International Holding MSC, Inc.	04-2443240		Massachusetts
	04-3341767		Massachusetts
MassMutual Holding MSC, Inc. MML CM LLC	04-3341/6/ None		Delaware
	None None		New York
Blueprint Income LLC			
Flourish Digital Assets LLC	None		Delaware
Flourish Halding Comment H.C.	None		Delaware
Flourish Holding Company LLC	None		Delaware
Flourish Insurance Agency 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
Intermodal Holding II LLC	46-2344300		Delaware
Milestone Acquisition Holding LLC	47-3055009		Delaware
Teaktree Acquisition, LLC	None		Delaware
VGS Acquisition Holding, 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
Haven Life Insurance Agency, LLC	46-2252944	Delaware
Aland Royalty Holdings LP	None	Delaware
GASL Holdings LLC	None	Delaware
Barings Asset-Based Income Fund (US) LP	None	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	Ireland
Barings North American Private Loan Fund LP	38-4010344	Delaware
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
MassMutual Ventures Holding LLC	None	Delaware
Athens Fund Management LLC	None	Delaware
Crane Venture Partners LLP	None	United Kingdom
MassMutual Ventures Management LLC	None	Delaware
MassMutual Ventures SEA Management Private Limited	None	Singapore
MassMutual Ventures Southeast Asia I LLC	None	Delaware
MassMutual Ventures Southeast Asia II LLC	None	Delaware
MassMutual Ventures Southeast Asia III LLC	None	Delaware
MMV Digital I LLC	None	Cayman Islands
MassMutual Ventures UK LLC	None	Delaware
MassMutual Ventures US I LLC	47-1296410	Delaware
MassMutual Ventures US II LLC	None	Delaware
MassMutual Ventures US III LLC	None	Delaware
MassMutual Ventures US IV 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 Finance 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

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	Federal Tax ID NAIC Co Code	State of Domicile
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	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
Altis Property Partners Holdings Pty Ltd	98-0457456	Australia
Altis Asset Management Pty Ltd	None	Australia
Altis Property Partners Pty Ltd	None	Australia
Barings Australia Structured Finance Holdings Pty Ltd	None	Australia
Barings Australia Structured Finance Pty Ltd	None	Australia
Barings Finance LLC	80-0875475	Delaware
BCF Europe Funding Limited	None	Ireland
BCF Senior Funding I LLC	None	Delaware
BCF Senior Funding I Designated Activity Company	None	Ireland
Barings Real Estate Acquisitions LLC	None	Delaware
Barings Securities LLC	04-3238351	Delaware
Barings Guernsey Limited	98-0437588	Guernsey
Barings Europe Limited	None	United Kingdom
Barings Asset Management Spain SL	None	Spain
Baring France SAS	None	France
Baring International Fund Managers (Ireland) Limited	None	Ireland
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 Świtzerland Sàrl	None	Switzerland
Baring Asset Management Limited	98-0241935	United Kingdom
Barings European Direct Lending 1 GP LLP	None	United Kingdom

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	Federal Tax ID NAIC Co Code	State of Domicile
Baring International Investment Limited	98-0457328	United Kingdom
Baring International Investment Management Holdings	98-0457587	United Kingdom
Baring Asset Management UK Holdings Limited	98-0457576	United Kingdom
Baring 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.1.	None	Luxembourg
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
PREIF Holdings Limited Partnership	None	United Kingdom
BMC Holdings DE LLC	None	Delaware
Barings Real Estate Advisers Inc.	04-3238351	Delaware
CRA Aircraft Holding LLC*	81-4258759	Delaware
Chassis Acquisition Holding LLC	81-2244465	Delaware
EIP Holdings I, LLC	None	Delaware
Novation Companies, Inc.	None	Maryland
Red Lake Ventures, LLC	46-5460309	Delaware
Remington L & W Holdings LLC*	81-4065378	Connecticut
Tamiami Citrus, LLC	None	Delaware
Techquity, LP	None	Delaware
Validus Holding Company LLC	46-0687392	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
Barings Infiniti Fund Management LLC	None	Delaware
Barings Hotel Opportunity Venture I GP, LLC	None	Delaware
Barings Investment Series LLC	None	Delaware
Barings Emerging Generation Fund GP, LLC	None	Delaware
Barings Emerging Generation Fund GP II, LLC	None	Delaware
Barings ERS PE Emerging Manager III GP, 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 Direct Lending GP Ltd.	None	Cayman Islands
Barings Emerging Generation Fund LP	84-3784245	Delaware

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	Federal Tax ID	NAIC Co Code	State of Domicile
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
BMT RE Debt Fund GP LLC	None		Delaware
Barings Small Business Fund LLC	84-5063008		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
BHOVI Incentive LLC	98-0330233 None		Delaware
BIG Real Estate Fund GP LLC	None		Delaware
			Delaware
BIG Real Estate Incentive I LLC	None		
BIG Real Estate Incentive II LLC	None		Delaware
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	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
Mezzco III LLC	41-2280126		Delaware
Mezzco IV LLC	80-0920285		Delaware
Mezzco Australia II LLC	None		Delaware
RECSA-NY GP LLC	None		Delaware
SBNP SIA II LLC	None		Delaware
SBNP SIA III 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
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 Asia Limited (SPV)	None		Hong Kong
MassMutual External Benefits Group LLC	27-3576835		Delaware
MMV CTF I GP LLC	None		Delaware
MassMutual Ventures Climate Technology Fund I LP	27-3576835		Delaware
Other Affiliates & Funds:	21-3310033		Delaware
100 w. 3 rd Street LLC	04-1590850		Dalawara
	82-2432216		Delaware Delaware
300 South Tryon Hotel LLC			
2160 Grand Manager LLC	04-1590850		Delaware

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	Federal Tax ID NAIC Co Code	State of Domicile
	111111111111111111111111111111111111111	
300 South Tryon LLC	04-1590850	Delaware
Almack Mezzanine Fund II Unleveraged LP	None	United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	82-3468147	Delaware
Barings Affordable Housing Mortgage Fund II LLC	61-1902329	Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663	Delaware
Barings Emerging Markets Corporate Bond Fund*	None	Ireland
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. 2012-II	None	Cayman Islands
Babson CLO Ltd. 2013-I	None	Cayman Islands
Babson CLO Ltd. 2015-I	None	Cayman Islands
Babson CLO Ltd. 2015-II	None	Cayman Islands
Babson CLO Ltd. 2016-I	None	Cayman Islands
Babson CLO Ltd. 2016-II	None	Cayman Islands
Barings CLO Ltd. 2017-I	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-II	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
Babson Euro CLO 2014-I BV	None	Netherlands
Babson Euro CLO 2014-II BV	None	Netherlands
Babson Euro CLO 2015-I BV	None	Netherlands
Barings Euro CLO 2019-I	3603726OH	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
Barings Euro CLO 2022-I DAC	None	Ireland
Barings Global Em. Markets Equity Fund	82-5330194	North Carolina
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 Global Technology Equity Fund	None	Ireland

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	Endard Toy ID NAIC C- C-1-	State of Dominile
	Federal Tax ID NAIC Co Code	State of Domicile
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 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 Real Estate European Value Add I SCSp*	None	United Kingdom
Barings Real Estate Debt Income Fund LP*	85-3449260	Delaware
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
Gateway Mezzanine Partners II LP*	90-0991195	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 2017-51	38-4032059	New York
Martello Re	None	Bermuda
Miami Douglas Two GP LLC*	04-1590850	Delaware
Miami Douglas Two CP LLC* Miami Douglas Two LP*	04-1590850	Delaware
Miami Douglas Two LP* Miami Douglas Three MM LLC	04-1590850	Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641	Delaware
	04-1590850	Delaware
MM Direct Private Investment Holding MM CM Holding LLC	None	Delaware
	81-3000420	
MM Debt Participations LLC		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877	Delaware
Ten Fan Pier Boulevard LLC	35-2553915	Delaware
Tower Square Capital Partners III, L.P.	41-2280127	Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129	Delaware
	04-1590850	Delaware
Washington Gateway Two LLC*	83-1325764	Delaware
Washington Gateway Three LLC*	32-0574045	Delaware
Barings Affiliates & Funds:		

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	Federal Tax ID NAIC Co Code	State of Domicile
Babson Capital Loan Strategies Master Fund LP	None	Cayman Islands
Barings China Aggregate Bond Private Securities Investment Fund	None	Peoples Republic of China
Barings European Growth Trust Fund	None	United Kingdom
Barings Global High Yield Fund CCIC Fund	47-3790192	Massachusetts
	None	Peoples Republic of China
Great Lakes II LLC*	71-1018134	Delaware
Wood Creek Venture Fund LLC Barings Real Estate Affiliates & Funds:	04-1590850	Delaware
Barings California Mortgage Fund IV	None	California
Barings Cantolnia Mortgage Pulid TV Barings Umbrella Fund LUX SCSp SICAV RAIF*	None	Luxembourg
Calgary Railway Holding LLC*	82-2285211	Delaware
Cornbrook PRS Holdings LLC	82-3307907	Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717	California
Cornerstone California Mortgage Fund II LLC Cornerstone California Mortgage Fund II LLC	95-4207717	California
Cornerstone California Mortgage Fund III LLC Cornerstone California Mortgage Fund III LLC	95-4207717 95-4207717	California
Cornerstone Fort Pierce Development LLC*	56-2630592	Delaware
Cornerstone Permanent Mortgage Fund	45-2632610	Massachusetts
Cornerstone Permanent Mortgage Fund II	61-1750537	Massachusetts
Cornerstone Permanent Mortgage Fund II Cornerstone Permanent Mortgage Fund III	35-2531693	Massachusetts
	61-1793735	Massachusetts
Cornerstone Permanent Mortgage Fund IV CREA/PPC Venture LLC	20-0348173	
Danville Riverwalk Venture, LLC	82-2783393	Delaware Delaware
· ·	04-1590850	
Euro Real Estate Holdings LLC	20-3347091	Delaware Delaware
Fan Pier Development LLC*	04-1590850	
GIA EU Holdings LLC	81-5360103	Delaware Delaware
Landmark Manchester Holdings LLC	13-1935920	
MMLIC Debt Participations LLC MM Brookhaven Member LLC	04-1590850	Delaware
	04-1590850	Delaware
MM Kannapolis Industrial Member LLC		Delaware
MM East South Crossing Member LLC	04-1590850	Delaware
MM Horizon Savannah Member LLC*	04-1590850	Delaware
MM National Self-Storage Program Member LLC	04-1590850 04-1590850	Delaware
MM 1400 E 4th Street Member LLC	04-1590850 80-0948028	Delaware
One Harbor Shore LLC*		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:	51 0520229	M
MassMutual Premier Main Street Fund	51-0529328	Massachusetts

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MassMutual Premier Strategic Emerging Markets Fund MassMutual Select Funds: MassMutual Select Fundamental Growth Fund MassMutual Select Mid-Cap Value Fund MassMutual Select Small Capital Value Equity Fund MassMutual Select Small Company Value Fund MassMutual Select T. Rowe Price Retirement 2005 Fund MassMutual Select T. Rowe Price Retirement 2010 Fund	26-3229251 04-3512593 42-1710935 02-0769954 04-3584140 82-3347422 82-3355639 82-3382389	Massachusetts Massachusetts Massachusetts Massachusetts Massachusetts
MassMutual Select Fundamental Growth Fund MassMutual Select Mid-Cap Value Fund MassMutual Select Small Capital Value Equity Fund MassMutual Select Small Company Value Fund MassMutual Select T. Rowe Price Retirement 2005 Fund	42-1710935 02-0769954 04-3584140 82-3347422 82-3355639	Massachusetts Massachusetts
MassMutual Select Mid-Cap Value Fund MassMutual Select Small Capital Value Equity Fund MassMutual Select Small Company Value Fund MassMutual Select T. Rowe Price Retirement 2005 Fund	42-1710935 02-0769954 04-3584140 82-3347422 82-3355639	Massachusetts Massachusetts
MassMutual Select Small Capital Value Equity Fund MassMutual Select Small Company Value Fund MassMutual Select T. Rowe Price Retirement 2005 Fund	02-0769954 04-3584140 82-3347422 82-3355639	Massachusetts
MassMutual Select Small Company Value Fund MassMutual Select T. Rowe Price Retirement 2005 Fund	04-3584140 82-3347422 82-3355639	
MassMutual Select T. Rowe Price Retirement 2005 Fund	82-3347422 82-3355639	Massachusetts
	82-3355639	
MassMutual Select T. Rowe Price Retirement 2010 Fund		Massachusetts
	82-3382389	Massachusetts
MassMutual Select T. Rowe Price Retirement 2015 Fund		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 Price 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:		
MML Series International Equity Fund	46-4257056	Massachusetts
MML Series Investment Funds II:	10 120 100	
MML Series II Dynamic Bond Fund	47-3529636	Massachusetts
MML Series II Equity Rotation Fund	47-3544629	Massachusetts
MassMutual RetireSMART Funds:	., 55.1.625	1140040140040
MassMutual RetireSMART 2035 Fund	27-1933380	Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769	Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207	Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235	Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155	Massachusetts
MassMutual 80/20 Allocation Fund	45-1618222	Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464	Massachusetts
MassMutual 40/60 Allocation Fund	45-1618262	Massachusetts
MassMutual 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual ishares 60/40 Allocation Fund	45-1618046	Massachusetts
MassMutual Balanced Fund	04-3212054	Massachusetts
MassMutual Blue Chip Growth Fund	04-3556992	Massachusetts
MassMutual Dide Chip Growth Fund MassMutual Core Bond Fund	04-3277549	Massachusetts
MassMutual Core Bond Fund MassMutual Disciplined Growth Fund	04-3539084	Massachusetts
MassMutual Disciplined Value Fund	04-3539084	Massachusetts
MassMutual Diversified Value Fund	01-0821120	Massachusetts
MassMutual Equity Opportunities Fund	04-3512590	Massachusetts

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	Federal Tax ID NAIC Co Code	State of Domicile
MassMutual Growth Opportunities Fund	04-3512589	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 Fundamental Value Fund	04-3584138	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 Strategic Bond Fund	26-0099965	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

	PART 1A - DETAIL OF INSURANCE HOLDING COMPANT STSTEM														
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	-	- 1			Provide		Re-	
0			ID	Fadami		if Publicly Traded	Parent. Subsidiaries	ciliary	to	Discoult Constantly of his	Attorney-in-Fact,		Lillting at a Constantiin o		
Group	Out Name	Company		Federal RSSD	0114	(U.S. or	Or Affiliates	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	
Code	Group Name	Code	Number	RSSD	CIK	International)	Massachusetts Mutual Life Insurance Company	tion	Entity	(Name of Entity/Person) Massachusetts Mutual Life Insurance	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	
. 0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			(MMLIC)	MA	UIP	Company	Ownership		MMLIC		
. 0433	massachusetts mut Life ilis co	00900	04-1090000	3040300			(MMLTO)	IMA	017	Massachusetts Mutual Life Insurance	Owner Strip		WWLIG		
. 0435							MassMutual Ventures Europe/APAC GP, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0400							massimutuar vertures Europe/ArAo i or, EEO	DL		Massachusetts Mutual Life Insurance	Owner Strip		WWWL 10		
. 0435							MassMutual Ventures Europe/APAC GP, L.P	CYM	NIA	Company	Ownership		MMLIC		
							macomataa romanoo zaropo, mno rom, zm. r			Massachusetts Mutual Life Insurance					
. 0435		l	l			l	MassMutual Ventures Europe/APAC L.P	CYM	NIA	Company	Ownership	100.000	MMLIC		l
										Massachusetts Mutual Life Insurance			·		
. 0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company	CT	IA	Company	Ownership	100.000	MMLIC		
. 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	MMLIC		
. 0435	Massachusetts Mut Life Ins Co	l					CM Life Mortgage Lending LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MMLIC		l
. 0000							CML Special Situations Investor LLC	DE	NIA	C.M. Life Insurance Company	Ownership		MML IC		
										Massachusetts Mutual Life Insurance					
. 0000							CML Global Capabilities LLC	DE	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance	·				
. 0000							MM Global Capabilities LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
							MassMutual Global Business Services India								
. 0000							LLP	IND	NIA	MM Global Capabilities LLC	Ownership	100.000	MMLIC		
. 0000							MM Global Capabilities (Netherlands) B.V	NLD	NIA	MM Global Capabilities LLC	Ownership		MMLIC		
							MassMutual Global Business Services Romania								
. 0000							S.R.L	R0U	NIA	MM Global Capabilities (Netherlands) B.V.	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM Global Capabilities II LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MM Global Capabilities III LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000							MILES CONTRACTOR TO THE PROPERTY OF THE PROPER	DE	NIA	Massachusetts Mutual Life Insurance	Ownership		MMLIC		
. 0000							MM/Barings Multifamily TEBS 2020 LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MML Special Situations Investor LLC	DE	NIA	Massachusetts mutual Life Insurance	Ownership	100.000	MM_IC		
. 0000							mmL special situations investor LLC	DE	NIA	Massachusetts Mutual Life Insurance	Owner Strip		WWLIG		
. 0000			47-5322979				Timberland Forest Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			47-5322979				Timber land Forest Holding LLC	DE	NIA	C.M. Life Insurance Company	Influence	0.000	MM_IC		
. 0000			47-5322979				Timber land Forest Holding LLC	DE	NIA	Wood Creek Capital Management LLC	Management		MM_IC		
. 0000			TI -3022313				Lyme Adirondack Forest Company, LLC	DE	NIA	Timberland Forest Holding LLC	Ownership.	100.000	MMLIC		
. 0000							Lyme Adirondack Forest Company, EEC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC		
. 0000							Lyme Adirondack Timberlands I, LLC	DE	NIA	Lyme Adirondack Forest Company, LLC	Ownership	100.000	MMLIC		
. 0000							Lyme Adirondack Timber Sales, LLC	DE	NIA		Ownership		MMLIC		
. 0000							Lyme Aditiondack timber Sales, LLC	VE	N1A	Lyme Adirondack Forest Company, LLC Massachusetts Mutual Life Insurance	Owner Strip	100.000	WWILIU		
. 0000			04-1590850				Berkshire Way LLC	DE	NIA	Company	Ownership	100.000	MM_IC		
. 0000			83-0560183				Aland Royalty Holdings LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	26.700	MMLIC		
. 0000			82-2932156				GASL Holdings LLC	DE	NIA	MassMutual Holding LLC	Ownership.	11.300	MMLIC		
. 0000			02-2302 100				UNDE HUTUTIYS LEG	UE	NIA	Massachusetts Mutual Life Insurance	Owner of the		WWWLIO		
. 0000			04-1590850				MSP-SC. LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							55, EE0	52		Massachusetts Mutual Life Insurance	J				
. 0000		l	l		l		EM Opportunities LLC	DE	NIA	Company	Ownership	100.000	MMLIC		[<u></u> .]
							411			Massachusetts Mutual Life Insurance					
. 0000							MassMutual MCAM Insurance Company, Inc	VT	NIA	Company	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							MassMutual Ventures US IV, GP, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US IV, LP	DE	NIA	MassMutual Ventures US IV, GP, LLC	Ownership		MMLIC		

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											Туре	If			,
											of Control	Control			
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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-		Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	,
	One and Name				Olle				Reporting						
Code	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	4——
								25		Massachusetts Mutual Life Insurance		400.000			,
. 0000			04-1590850				Insurance Road LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-1590850				MassMutual Trad Private Equity LLC	DE	NI A	Insurance Road LLC	Ownership		MMLIC		
. 0000			04-1590850				MassMutual Intellectual Property LLC	DE	NIA	Insurance Road LLC	Ownership		MMLIC		
. 0000							Trad Investments I LLC	DE	NI A	Insurance Road LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					,
. 0000							ITPSHolding LLC	DE	NIA	Company	Ownership		MMLIC		
. 0000							HITPS LLC	DE	NIA	ITPS Holding LLC	Ownership	100.000	MMLIC		. !
									1	Massachusetts Mutual Life Insurance					'
. 0000							JFIN Parent LLC	DE	NI A	Company	Ownership		MMLIC	.	
. 0000							Forma Brands, LLC*	DE	NI A	JFIN Parent LLC	Ownership		MMLIC		
. 0000			27-0105644				Jefferies Finance LLC	DE	NIA	JFIN Parent LLC	Ownership	50.000	MMLIC		1
									1	Massachusetts Mutual Life Insurance					1
. 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	100.000	MMLIC		ļ !
. 0435	Massachusetts Mut Life Ins Co	93661	31-1021738				Annuity Investors Life Insurance Company	0H	IA	MassMutual Ascend Life Insurance Company .	Ownership	100.000	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		MMLIC		.
. 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		MMLIC		1
. 0400	massacrasetts mat Erre ins ou	07000	40 0202001				marinattan national Erro modifico company	011		Massachusetts Mutual Life Insurance	owner strip		MWLIO		
. 0000							MassMutual Mortgage Lending LLC	DE	NI A	Company	Ownership		MM_IC		,
. 0000							Jefferies Private Credit BDC Inc.	MD	NIA	Jefferies Finance LLC	Ownership		MM_IC		
. 0000							JFIN GP Adviser LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		1
. 0000							JFIN Fund 111 LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Credit Partners LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMI IC		
. 0000							Apex Credit Partners LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership		MMLIC		
							Jefferies Credit Management LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership		MMLIC		
. 0000											•		MMLIC		
. 0000							JCP Direct Lending CLO 2022 LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIG		
. 0000							Jefferies Direct Lending Europe SCSp SICAV- RAIF	LUX	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC		1
												9.900			
. 0000							Jefferies Credit Management Holdings LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership		MMLIC		
. 0000							Senior Credit Investments, LLC	DE	NIA	Jefferies Credit Partners LLC	Ownership	9.900	MMLIC	· · · · · · · · · · · · · · · · · · ·	
. 0000							JDLF GP (Europe) S.a.r.l	LUX	NIA	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JFAM GP LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership	100.000	MMLIC		
. 0000							JFAM GP LP	DE	NI A	Jefferies Credit Partners LLC	Ownership		MMLIC	.	
. 0000							Jefferies Direct Lending Fund C LP	DE	NI A	JFAM GP LP	Ownership		MMLIC		
. 0000							Jefferies DLF C Holdings LLC	DE	NI A	Jefferies Direct Lending Fund C LLC	Ownership	100.000	MMLIC		. !
. 0000							Jefferies Direct Lending Fund C SPE LLC	DE	NI A	Jefferies DLF C Holdings LLC	Ownership	100.000	MMLIC		. '
. 0000							JDLF II GP LLC	DE	NI A	Jefferies Credit Partners LLC	Ownership		MMLIC	.	. [!]
. 0000							JDLF II GP LP	DE	NI A	JDLF II GP LLC	Ownership		MMLIC		.
. 0000		l	l	l	l	l	Jefferies Direct Lending Fund II C LP	DE	NIA	JDLF II GP LP	Ownership.		MMLIC		J '
. 0000							Jefferies DLF II C Holdings LLC	DE	NI A	Jefferies Direct Lending Fund II C LP	Ownership	100.000	MMLIC	1	,
. 0000							Jefferies Direct Lending Fund II C SPE LLC	DE	NI A	Jefferies DLF II C Holdings LLC	Ownership	100.000	MMLIC		I
. 0000							Jefferies Senior Lending LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC		
. 0000		l					Jefferies Credit Partners BDC Inc	MD	NIA	Jefferies Finance LLC	Ownership		MMLIC		
		l						ND	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC	1	
. 0000							JFIN Revolver Holdings LLC		NIA	Jefferies Finance LLC	Ownership				
. 0000							JFIN Revolver Holdings II LLC	DE			•		MMLIC		
. 0000					<u> </u>		JFIN Revolver Holdings IV LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	<u> </u>	
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SCHEDULE Y

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											Туре	lf			
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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							JFIN Co-Issuer Corporation	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Europe GP, S.a.r.I	LUX	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, S.L.P	LUX	NI A	JFIN Europe GP, S.a.r.I	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Europe, SCSp	LUX	NI A	JFIN Europe GP, S.a.r.I	Ownership	100.000	MMLIC		
. 0000							Jefferies Finance Business Credit LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Business Credit Fund I LLC	DE	NI A	Jefferies Finance Business Credit LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Funding 2021 LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN High Yield Investments LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN LC Fund LLC	DE	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Holdings LLC	DE	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition LLC	DE	NIA	Beauty Brands Acquisition Holdings LLC	Ownership	100.000	MMLIC		
. 0000							Beauty Brands Acquisition Intermediate LLC .	DE	NI A	Beauty Brands Acquisition LLC	Ownership	100.000	MMLIC		
										Beauty Brands Acquisition Intermediate LLC					
. 0000							Forma Brands, LLC	DE	NI A		Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2017-III Ltd	CYM	NI A	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	NI A	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver CLO 2019-II Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2020 Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2021-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2021-V Ltd.	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-II Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-III Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver CLO 2022-IV Ltd	CYM	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Fund, L.P.	DE	NI A	Jefferies Finance LLC	Ownership	90.000	MMLIC		
. 0000							JFIN Revolver Funding 2021 Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2021 III Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2021 IV Ltd	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC		
. 0000							JFIN Revolver Funding 2022-I Ltd	BMU	NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
. 0000							JFIN Revolver SPE1 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JFIN Revolver SPE3 2022 LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	. [
. 0000							JFIN Revolver SPE4 2022 LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	. [
. 0000							SFL Parkway Funding 2022 LLC	DE	NIA	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JCP Private Loan Management GP LLC	DE	NI A	Jefferies Finance LLC	Ownership		MMLIC	.	
. 0000							JCP Private Loan Management LP	DE	NI A	JCP Private Loan Management GP LLC	Ownership		MMLIC	. [
. 0000							Apex Credit Holdings LLC	DE	NI A	JFIN Parent LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2012 Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	. [l
. 0000							JFIN CLO 2013 Ltd	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC	. [
. 0000							JFIN CLO 2014 Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	.	
. 0000							JFIN CLO 2014-II Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC	. [
. 0000							JFIN CLO 2015 Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC	. [l
. 0000							JFIN CLO 2015-II Ltd	CYM	NI A	Apex Credit Partners LLC	Ownership	85.000	MMLIC	.	
. 0000			l				JFIN CLO 2016 Ltd.	CYM	NIA	Apex Credit Partners LLC	Ownership		MMLIC		
. 0000							JFIN CLO 2017 Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC		l
. 0000							JFIN CLO 2017-II Ltd.	CYM	NI A	Apex Credit Partners LLC	Ownership		MMLIC		l
. 0000							Tomorrow Parent, LLC	DE	NI A	JFIN Parent LLC	Ownership		MMLIC		l
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SCHEDULE Y

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											(Ownership,	is		Is an	1
						Name of Securities			Relation-		Board.	Owner-		SCA	1
						Exchange		Domi-	ship		Management,	ship		Filing	
		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	Croup Hamo	Oodo	ramboi	ROOD	Unit	international)	Custom Ecology Holdco, LLC	DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC	(100/110)	
. 0000							ouston Ecology Horaco, EEO	DL	NIA	Massachusetts Mutual Life Insurance	Owner strip		WWLTO		
. 0000			04-1590850				MM Copper Hill Road LLC	DE	NI A	Company	Ownership	100.000	MMLIC		1
										Massachusetts Mutual Life Insurance					
. 0000							MMV CTF I GP LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
							MassMutual Ventures Climate Technology Fund								
. 0000							LP	DE	NIA	MMV CTF I GP LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							MM Direct Private Investments Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000							MM Direct Private Investments UK Limited	GBR	NIA	MM Direct Private Investments Holding LLC	Ownership	100.000	MMLIC		
. 0000							DPI-ACRES Capital LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	100.000	MML IC		1
. 0000							DPT-ACHES Capital LLC	DE	NIA	Company	Uwnersnip	100.000	MINILIU		
. 0000							MM Investment Holding	CYM	NIA	Company	Ownership	100.000	MMLIC		1
. 0000							MMIH Bond Holdings LLC	DE	NIA	MM Investment Holding	Ownership	99.600	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NI A	MM Investment Holding	Ownership	99.600	MMLIC		
. 0000			26-0073611				MassMutual Asset Finance LLC	DE	NIA	C.M. Life Insurance Company	Ownership	0.400	MMI IC		
. 0000			36-4785301				MMAF Equipment Finance LLC 2014-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			35-2590691				MMAF Equipment Finance LLC 2014-A	DE	NIA	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000			32-0546197				MMAF Equipment Finance LLC 2017-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000			82-5335801				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			03-3722040				MMAF Equipment Finance LLC 2019-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							MMAF Equipment Finance LLC 2020-A	DE	NIA	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000							MMAF Equipment Finance LLC 2020-B	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MM_IC		
. 0000							MMAF Equipment Finance LLC 2020-B	DE	NIA	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000							MMAF Equipment Finance LLC 2021-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMI IC		
. 0000							MMAF Equipment Finance LLC 2022-A	DE	NIA	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
. 0000							Rozier LLC	DE	NIA	MassMutual Asset Finance LLC	Ownership		MMLIC		
. 0000			04-2443240				MML Management Corporation	MA	NIA	MM Investment Holding	Ownership	100.000	MMLIC	YES	
. 0000			04-2443240				MassMutual International Holding MSC, Inc	MA	NIA	MML Management Corporation	Ownership		MMLIC	1E0	
. 0000			04-3341767				MassMutual Holding MSC. Inc.	MA	NIA	MML Management Corporation	Ownership	100.000	MMI IC		
. 0000			04-3341/0/				massmutual noturng mso, mc	IWA	NIA	Massachusetts Mutual Life Insurance	owner strip	100.000	WWL10		
. 0000							MML CM LLC	DE	NI A	Company	Ownership	100.000	MMLIC		1
. 0000							Blueprint Income LLC	NY	NIA	MML CM LLC	Ownership		MMLIC		
. 0000							Flourish Digital Assets LLC	DE	NIA	MML CM LLC	Ownership		MMLIC		
. 0000							Flourish Financial LLC	DE	NI A	MML CM LLC	Ownership		MMLIC		1
. 0000							Flourish Holding Company LLC	DE	NIA	MML CM LLC	Ownership		MMLIC		
. 0000							Flourish Insurance Agency LLC	DE	NI A	MML CM LLC	Ownership		MMLIC		
. 0000							Flourish Technologies LLC	DE	NIA	MML CM LLC	Ownership		MMLIC		1
										Massachusetts Mutual Life Insurance					
. 0000			04-3356880				MML Distributors LLC	MA	NIA	Company	Ownership	99.000	MMLIC		
. 0000			04-3356880				MML Distributors LLC	MA	NIA	MassMutual Holding LLC	Ownership	1.000	MMLIC		1
		1							1	Massachusetts Mutual Life Insurance					
. 0000							MML Investment Advisers, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			46-3238013				MML Strategic Distributors, LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
0000			00 4500505	0001445			The Meanly to Later Community COR	ОТ	NIA	Massachusetts Mutual Life Insurance	0	100.000	IMM 10	VEO	
. 0000			06-1563535	2881445			The MassMutual Trust Company, FSB	CT	NI A	Company	Ownership	100.000	MMLIC	YES	

PART IA - DETAIL OF INSURANCE HOLDING COMPANT STSTEM															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
					-						Type	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-	
Craun			ID	Codorol			Parent, Subsidiaries			Directly Controlled by			Liltimata Cantrallina		
Group Code	O No	Company Code		Federal RSSD	CIK	(U.S. or International)	Or Affiliates	Loca- tion	Reporting Entity	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired? (Yes/No)	
Code	Group Name	Code	Number	RSSD	CIK	international)		เเดก	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	1
. 0000			04-1590850				MML Private Placement Investment Company I,	DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			04-1590850				LLC	DE	NIA	Massachusetts Mutual Life Insurance	Uwnersnip	100.000	MMLIC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Company	Ownership	100.000	MM_IC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	DE	NIA	Baring Asset Management Limited	Management		MM_IC		
. 0000			04-1030000				mime i i i vate equity i una investor ele	DL		Massachusetts Mutual Life Insurance	management		WWILTO		
. 0000			04-1590850				MM Private Equity Intercontinental LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			01 1000000				militrato Equity intoroditinontal EEO			Massachusetts Mutual Life Insurance	omor omp.		WWL 10		
. 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	NI A	Company	Ownership	100.000	MMLIC	YES	
. 0000			06-1597528				MassMutual Assignment Company	NC	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		l
. 0000			37-1732913				Fern Street LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Low Carbon Energy Holding	GBR	NIA	MassMutual Holding LLC	Ownership.	49.000	MMLIC		
. 0000							Sleeper Street LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Intermodal Holding II LLC	DE	NI A	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
. 0000							Milestone Acquisition Holding LLC	DE	NI A	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
. 0000			46-2252944				Haven Life Insurance Agency, LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMI IC		
. 0000			04-1590850				MassMutual Capital Partners LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			46-4255307				Marco Hotel LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
											•				
. 0000			45-3623262				HB Naples Golf Owner LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			82-4411267				RB Apartments LLC	DE	NIA	MassMutual Holding LLC	•		MMLIC		
. 0000							MassMutual Ventures Holding LLC	DE	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Athens Fund Management LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							Crane Venture Partners LLP	GBR	NIA	MassMutual Ventures Holding LLC	Ownership	33.000	MMLIC		
. 0000							MassMutual Ventures Management LLC	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
							MassMutual Ventures SEA Management Private	25				400 000			
. 0000							Limited	DE	NIA	MassMutual Ventures Management LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures Southeast Asia I LLC	DE	NIA	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 Southeast Asia III LLC .	DE	NI A	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
										MassMutual Ventures Southeast Asia III LLC					
. 0000							MMV Digital I LLC	CYM	NIA		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	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US III LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000							MassMutual Ventures US IV LLC	DE	NIA	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MM Rothesay Holdco US LLC	DE	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Limited	GBR	NIA	MM Rothesay Holdco US LLC	Ownership	48.800	MMLIC		
. 0000							Rothesay Life Plc	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.1 Limited	GBR	NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Mortgages Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.3 Limited	GBR	NI A	Rothesay Life PLC	Ownership	100.000	MMLIC		l
. 0000		l					Rothesay MA No.4 Limited	GBR	NIA	Rothesay Life PLC	Ownership.	100.000	MMLIC		l
. 0000							LT Mortgage Finance 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	MMI IC		
. 0000							Rothesay Foundation	GBR	NIA	Rothesay Limited	Ownership	100.000	MM_IC		
. 0000							Rothesay Pensions Management Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay Asset Management UK Limited	GBR	NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							mothosay asset management on Limited		4 INITA	Hothoody Elillited	υπισι σιΠμ		MMLIV		

SCHEDULE Y

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Code						Name of Securities			Relation-		Board,	Owner-		SCA	
Code						Exchange		Domi-	ship		Management,	ship		Filing	
Code		NAIC				if Publicly Traded	Names of	ciliary	to		Attorney-in-Fact,	Provide		Re-	l l
Code		Company	ID	Federal		(U.S. or	Parent. Subsidiaries	Loca-	Reporting	Directly Controlled by	Influence,	Percen-	Ultimate Controlling	quired?	,
	Group Name	Code	Number	RSSD	CIK	International)	Or Affiliates	tion	Entity	(Name of Entity/Person)	Other)	tage	Entity(ies)/Person(s)	(Yes/No)	, *
. 0000	Gloup Name	Code	Nullibel	NOOD	CIR	international)	Rothesay Asset Management Australia Pty Ltd	AUS		Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC	(165/110)	++
. 0000							Rothesay Asset Management North America LLC	DE		Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund LLC	DE		MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							MM Catalyst Fund II LLC	DE		MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			47-1466022				LifeScore Labs, LLC	MA	NI A	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		MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MML Investors Services, LLC	MA	NI A	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				MML Insurance Agency, LLC	MA	NI A	MML Investors Services, LLC	Ownership	100.000	MMLIC		!
. 0000			41-2011634				MMLISI Financial Alliances, LLC	DE	NI A	MML Investors Services, LLC	Ownership	100.000	MMLIC		.
. 0000			51-0504477				Barings LLC	DE	NI A	MassMutual Asset Management Holding LLC	Ownership	100.000	MMLIC		. !
							Baring Asset Management (Asia) Holdings				,				,
. 0000			98-0524271				Limited	HKG	NI A	Barings LLC	Ownership	100.000	MMLIC		. !
							Baring International Fund Managers (Bermuda)			Baring Asset Management (Asia) Holdings	•] ,
. 0000			98-0457465				Limited	BMU		Limited	Ownership	100.000	MMLIC		!
										Baring Asset Management (Asia) Holdings	•] ,
. 0000			98-0457463				Baring Asset Management (Asia) Limited	HKG		Limited	Ownership	100.000	MMLIC		
. 0000							Baring Asset Management Korea Limited	KOR	NI A	Baring Asset Management (Asia) Limited	Ownership	100.000	MMLIC		!
							Barings Investment Management (Shanghai)] ,
. 0000							Limited	HKG		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		Limited	Ownership	100.000	MMLIC		
										Baring Asset Management (Asia) Holdings] ,
. 0000						•••••	Barings Singapore Pte. Ltd	SGP		Limited	Ownership	100.000	MMLIC		
								1011		Baring Asset Management (Asia) Holdings		400.000] ,
. 0000			98-0236449				Barings Japan Limited	JPN		Limited	Ownership	100.000	MMLIC		
0000							Desires Assaults Helding Consess DA. LAd	4110		Baring Asset Management (Asia) Holdings Limited	Ownership	100.000	MMLIC] ,
. 0000							Barings Australia Holding Company Pty Ltd	AUS							
. 0000							Barings Australia Pty Ltd	AUS	NI A	Barings Australia Holding Company Pty Ltd	Ownership	100.000	MMLIC		
. 0000]			Barings Australia Real Estate Holdings Pty	ALIC	NIIA	Paringa II C	Ownership	100.000	MMLIC		
. 0000							Liu	AUS	NI A	Barings LLCBarings Australia Real Estate Holdings Ptv	Owner Sm p	100.000	WWLIC		
. 0000			14-0045656]			Barings Australia Real Estate Pty Ltd	AUS	NI A	Dailings Mustialia neal Estate notuings Pty	Ownership	100.000	MMLIC		
. 0000			98-0457456				Altis Property Partners Holdings Pty Ltd	AUS		Barings Australia Real Estate Pty Ltd	Ownership	100.000	MMLIC		
. 0000			30-040/400					AUS			Ownershi-	100.000	MMLIC		
							Altis Asset Management Pty Ltd			Altis Property Partners Holdings Pty Ltd .	Ownership		MMLIC		
. 0000							Altis Property Partners Pty Ltd	AUS	NI A	Altis Property Partners Holdings Pty Ltd .	Ownership	100.000	MWLIC		
. 0000							Barings Australia Structured Finance Holdings Ptv Ltd	AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000								AUS			Uwnersnip	100.000	MMLIC		
0000							Barings Australia Structured Finance Pty Ltd	4110		Barings Australia Structured Finance		400.000	MMLIC		,
. 0000								AUS		Holdings Pty Ltd	Ownership	100.000			
. 0000			80-0875475				Barings Finance LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
. 0000							BCF Europe Funding Limited	IRL		Barings Finance LLC	Ownership	100.000	MMLIC		
. 0000							BCF Senior Funding LLC	DE	NI A	Barings Finance LLC	Ownership	100.000	MMLIC		
							BCF Senior Funding Designated Activity								
. 0000							Company	IRL		Barings Finance LLC	Ownership	100.000	MMLIC		
. 0000							Barings Real Estate Acquisitions LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
. 0000			04-3238351				Barings Securities LLC	DE		Barings LLC	Ownership	100.000	MMLIC		
. 0000			98-0437588				Barings Guernsey Limited	GGY		Barings LLC	Ownership	100.000	MMLIC		!
. 0000							Barings Europe Limited	GBR	NI A	Barings Guernsey Limited	Ownership	100.000	MMLIC		!

SCHEDULE Y

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											(Ownership,	is		ls an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
		NIAIO				Exchange	Name of	Domi-	ship		Management,	ship		Filing	
Croun		NAIC	ID	Codoral		if Publicly Traded	Names of Parent, Subsidiaries	ciliary	to	Directly Controlled by	Attorney-in-Fact, Influence.	Provide	Lillimata Cantrallina	Re-	
Group Code	Group Name	Company Code	Number	Federal RSSD	CIK	(U.S. or International)	Or Affiliates	Loca- tion	Reporting Entity	Directly Controlled by (Name of Entity/Person)	Other)	Percen- tage	Ultimate Controlling Entity(ies)/Person(s)	quired? (Yes/No)	*
. 0000	Group Name	Code	Number	ROOD	Oil	international)	Barings Asset Management Spain SL	ESP	NIA	Barings Europe Limited	Ownership	100.000	MMLIC	(163/140)	
. 0000							Baring France SAS	FRA	NI A	Barings Europe Limited	Ownership.	100.000	MMLIC		
							Baring International Fund Managers (Ireland)								
. 0000							Limited	IRL	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings GmbH	DEU	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Italy S.r.I.	ITA	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000							Barings Sweden AB	SWE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0432153				Barings (U.K.) Limited	NLD	NIA	Barings Europe Limited	Ownership		MMLIC		
. 0000			90-0432133				Barings Switzerland Sàrl	CHE	NIA	Barings Europe Limited	Ownership	100.000	MMLIC		
. 0000			98-0241935				Baring Asset Management Limited	GBR	NIA	Barings Europe Limited	Ownership	100.000	MMI IC		
. 0000							Barings European Direct Lending 1 GP LLP	GBR	NI A	Baring Asset Management Limited	Ownership.		MMLIC		
. 0000			98-0457328				Baring International Investment Limited	GBR	NIA	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
							Baring International Investment Management								
. 0000			98-0457587				Holdings	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
0000			. 98-0457576				D : A AM ANKULE I : : A	GBR	NIA	Baring International Investment Management		100.000	MMLIC		
. 0000			. 98-0457576 . 98-0457586				Baring Asset Management UK Holdings Limited Baring Fund Managers Limited	GBR	NIA	Holdings	Ownership		MMLIC		
. 0000			. 30-0437300				BCGSS 2 GP LLP	GBR	NIA	Baring Fund Managers Limited	Ownership	100.000	MMLIC		
. 0000			98-0457578				Baring Investment Services Limited	GBR	NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			00 010/0/0 ::				Barings Core Fund Feeder GP S.à.r.l	LUX	NI A	Baring Asset Management Limited	Ownership.		MMLIC		
. 0000							Barings BME GP S.à.r.I.	GBR	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings GPC GP S.à. 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	Ownership	100.000	MMLIC		
. 0000							Barings Investment Fund (LUX) GP S.à. r.I .	LUX	NI A	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000							Barings Umbrella Fund (LUX) GP S.à.r.l	LUX	NI A	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 BMC Holdings DE LLC	GBR	NIA NIA	Baring Asset Management Limited	Ownership	100.000	MMLIC		
. 0000			04-3238351	3456895			Barings Real Estate Advisers Inc.	CA	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 04-3236331	3430093			Dailings hear Estate Auvisers Inc.	UA	NIA	Massachusetts Mutual Life Insurance	owner simp		INVILIO		
. 0000			81-2244465				Chassis Acquisition Holding LLC	DE	NIA	Company	Ownership/Influence	30.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Company	Ownership/Influence	40.000	MMLIC		
. 0000			81-4258759				CRA Aircraft Holding LLC	DE	NIA	Barings LLC	Influence		MMLIC		
. 0000			. 83-0560183 82-2932156				Aland Royalty Holdings LP	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			. 82-2932156 . 46-2344300				GASL Holdings LLC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			47-3055009				Milestone Acquisition Holding, LLC.	DE	NIA	MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		
. 0000			. 47-3033009				mirrestone Acquisition horaling, LLC	DL	NIA	Massachusetts Mutual Life Insurance	ownership/initidence	13.000	I WINE TO		
. 0000							Novation Companies, Inc.	MD	NI A	Company	Ownership	17.100	MMLIC		
. 0000							Novation Companies, Inc.	MD	NIA	Barings LLC	Influence		MMLIC		
		1	40.540000							Massachusetts Mutual Life Insurance		0.4 505			
. 0000			. 46-5460309 46-5460309				Red Lake Ventures, LLC	DE	NIA	Company	Ownership/Influence	31.500	MMLIC		
. 0000			46-5460309				Red Lake Ventures, LLC	DE	NIA	Barings LLC	Influence		MMLIC		
. 0000		l	81-4065378				Remington L & W Holdings LLC	DE	NIA	Company	Ownership/Influence	19.900	MMLIC		
. 0000			81-4065378				Remington L & W Holdings LLC	DE	NI A	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000							Tamiami Citrus, LLC	DE	NIA	Company	Ownership	15.700	MMLIC		

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											(Ownership,	is		ls 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							Tamiami Citrus, LLC	DE	NI A	Barings LLC	Management/Board		MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NI A	MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
. 0000							Teaktree Acquisition, LLC	DE	NI A	Barings LLC	Influence		MMLIC		
							in the part of the			Massachusetts Mutual Life Insurance					
. 0000							Techquity, LP	DE	NI A	Company	Ownership	15.600	MMLIC		
. 0000							Techquity, LP	DE	NI A	Barings LLC	Influence		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							EIP Holdings I, LLC	DE	NIA	Company	Ownership/Influence	29.000	MMLIC		
. 0000			46-0687392				Validus Holding Company LLC	DE	NIA	Barings LLC	Ownership	40.400	MMLIC		
. 0000							VGS Acquisition Holding, LLC	DE	NIA	MassMutual Holding LLC	Ownership/Influence	33.300	MMLIC		
. 0000							VGS Acquisition Holding, LLC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Aland Royalty GP, LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Alaska Future Fund GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							BAI 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							Baring Asset-Based Income Fund (US) GP, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings CMS Fund GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Infiniti Fund Management LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Barings Hotel Opportunity Venture I GP, LLC	DE	NI A	Company	Ownership		MMLIC		
. 0000							Barings Investment Series LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Emerging Generation Fund GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings Emerging Generation Fund GP II, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings ERS PE Emerging Manager III GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
							Barings Global Investment Funds (U.S.)								
. 0000			04-1590850				Management LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Barings CLO Investment Partners GP, LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Core Property Fund GP LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000							Barings Direct Lending GP Ltd	CYM	NIA	Barings LLC	Ownership		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			84-3784245				Barings Emerging Generation Fund LP	DE	NI A	Company	Ownership	46.100	MMLIC		
. 0000			84-3784245				Barings Emerging Generation Fund LP	DE	NIA	Barings LLC	Management		MMLIC		
0000							Barings Global Energy Infrastructure	DE				400 000	188.10		
. 0000							Advisors, LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000		1	1				Barings Centre Street CLO Equity Partnership GP. LLC	DE	NIA	Barings LLC	Ownership		MMLIC		
. 0000							Barings North American Private Loan Fund	VE	NIA	Dai Higs LLC	owner strip		MWILTO		
. 0000							Management LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings North American Private Loan Fund II			Dut mgo LEO	omior on p.				
. 0000							Management LLC	DE	NI A	Barings LLC	Ownership.		MMLIC		
							Barings North American Private Loan Fund III			3.					
. 0000							Management, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
		1	1				Barings Global Special Situations Credit Fund	l	1						
. 0000							4 GP (Delaware) LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Barings - MM Revolver Fund GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BMT RE Debt Fund GP LLC	DE	NIA	Barings LLC	Ownership	100.000	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	MMLIC		
		1	1						1	Massachusetts Mutual Life Insurance	1.	1			
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NI A	Company	Ownership	33.600	MMLIC		
. 0000			84-5063008				Barings Small Business Fund LLC	DE	NIA	Barings LLC	Management		MMLIC		l

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						Name of Securities		l	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			98-0536233			,	Benton Street Advisors, Inc.	CYM	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BHOVI Incentive LLC	DE	NI A	Barings LLC	Ownership		MM_IC		
. 0000						***************************************	BIG Real Estate Fund GP LLC	DE	NIA	Barings LLC	Ownership.		MM_IC		
. 0000							BIG Real Estate Incentive LLC	DE	NI A	Barings LLC	Ownership.	100.000	MMLIC		
. 0000								DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
							BIG Real Estate Incentive II LLC								
. 0000							BRECS VII GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							BREDIF GP LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000							CREF X GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				Great Lakes III GP, LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							Lake Jackson LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
							Barings Emerging Markets Blended Fund I GP,			9					
. 0000							LLC	DE	NI A	Barings LLC	Ownership		MMLIC		
. 0000			41-2280126				Mezzco III LLC	DE	NIA	Barings LLC	Ownership	99.300	MM_IC		
. 0000			80-0920285				Mezzco IV LLC	DE	NI A	Barings LLC	Ownership	99.300	MMLIC		
			. 00-0320203				Mezzco Australia II LLC	DE	NIA	Barings LLC	Ownership	100.000	MMLIC		
. 0000															
. 0000							RECSA-NY GP LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000			. 04–1590850				SBNP SIA II LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
. 0000							SBNP SIA III LLC	DE	NI A	Barings LLC	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Amherst Long Term Holdings, LLC	DE	NI A	Company	Ownership	24.500	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			. 04-3313782				MassMutual International LLC	DE	NI A	Company	Ownership	100.000	MMLIC	YES	
. 0000							MassMutual Solutions LLC	DE	NI A	MassMutual International LLC	Ownership	100.000	MMLIC		
. 0000							Haven Technologies Asia Limited	HKG	NI A	MassMutual Solutions LLC	Ownership		MMLIC		
. 0000							Yunfeng Financial Group Limited	HKG	NI A	MassMutual International LLC	Ownership	24.900	MMLIC		
. 0000							MassMutual Asia Limited (SPV)	HKG	NI A	MassMutual International LLC	Ownership		MM_IC		
. 0000							massmutual Asia Elimitea (GFF)			Massachusetts Mutual Life Insurance	Office Strip		I IIII		
. 0000			27-3576835				MassMutual External Benefits Group LLC	DE	NI A	Company	Ownership		MM_IC		
. 0000			27 0070000				massimutuar External Benefits droup EEO	DL		Massachusetts Mutual Life Insurance	Office Strip		INVELO		
. 0000							MMV CTF GP LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
						***************************************	MassMutual Ventures Climate Technology Fund	1 52		ompany	O WING ON P				
. 0000							I P	. DE	NI A	MMV CTF I GP LLC	Ownership		MM_IC		
						***************************************				Massachusetts Mutual Life Insurance	O WING ON P				
. 0000			04-1590850				100 w. 3rd Street LLC	DE	NI A	Company	Ownership		MM_IC		
		l					010 011001 LL0			Massachusetts Mutual Life Insurance					
. 0000			04-1590850				2160 Grand Manager LLC	DE	NI A	Company	Ownership	95.000	MM_IC		
. 0000			. 04 1000000				2 100 di and manager EE0	DL		Massachusetts Mutual Life Insurance	Office Strip		I IIII		
. 0000			82-2432216				300 South Tryon Hotel LLC	DE	NI A	Company	Ownership		MM_IC		
. 0000			02 2402210				ood douth if you noter LEG	DL		Massachusetts Mutual Life Insurance	Office Strip		INVELO		
. 0000			04-1590850				300 South Tryon LLC	DE	NIA	Company	Ownership		MM_IC		
. 0000			. 04-1030000				300 30dtii 11 yoli LEC	DL		Massachusetts Mutual Life Insurance	Owner Sirip	100.000	MWLTO		
. 0000							Almack Mezzanine Fund II Unleveraged LP	GBR	NI A	Company	Ownership/Influence	72.900	MMLIC		
. 0000		l					Barings Affordable Housing Mortgage Fund I			Massachusetts Mutual Life Insurance	omoromp/ mirruence				
. 0000		1					IIC	DE	NI A	Company	Ownership	100.000	MML IC		
. 0000							Barings Affordable Housing Mortgage Fund I	UL	ΝΙΛ	Oniparty	οπιοι σπρ	100.000	INVILIO		
. 0000		1					LLC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000		l					Barings Affordable Housing Mortgage Fund II	VE	NIA	Massachusetts Mutual Life Insurance	management		INVIL. U		
. 0000		1	61-1902329				LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			. 01-1302023				Barings Affordable Housing Mortgage Fund II	UL	NIA	Ounpairy	οπιοι σπιρ	100.000	INNINE I U		
. 0000		I	61-1902329	I			IIC	DE	NIA	Barings LLC	Management		MMLIC		
. 0000		1	6202001 1001				LLV	vL		Dut mgo LLV	managomort		mm=1V		

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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			05 0000000				Barings Affordable Housing Mortgage Fund III	DE	NIA	Massachusetts Mutual Life Insurance		400.000	MM IC		1
. 0000			85-3036663				Barings Affordable Housing Mortgage Fund III	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			85-3036663				LLC	DE	NIA	Barings LLC	Management		MMLIC		1
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	11.200	MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC		
. 0000			36-4868350				Barings Asset-Based Income Fund (US) LP	DE	NI A	Barings LLC	Management		MMLIC		l
							Barings Emerging Markets Corporate Bond Fund			Massachusetts Mutual Life Insurance					1
. 0000								IRL	NIA	Company	Ownership/Influence	53.200	MMLIC		
							Barings Emerging Markets Corporate Bond Fund				-				1
. 0000								IRL	NI A	Barings LLC	Ownership	17.200	MMLIC		
							Barings European Real Estate Debt Income Fund			Massachusetts Mutual Life Insurance					1
. 0000								LUX	NI A	Company	Ownership/Influence	66.300	MMLIC		
0000							Barings European Real Estate Debt Income Fund	LLIV		2	Influence		MM IC		1
. 0000							Babson Capital Global Special Situation	LUX	NIA	Barings LLC	Influence		MMLIC		
. 0000			98-1206017				Credit Fund 2	DE	NIA	MassMutual Holding LLC	Ownership/Influence	21.800	MMLIC		1
. 0000			1200017				Babson Capital Global Special Situation	DL		massimutuar norumg LEO					
. 0000			98-1206017				Credit Fund 2	DE	NI A	C.M. Life Insurance Company	Ownership		MMLIC		
							Babson Capital Global Special Situation								1
. 0000			. 98–1206017				Credit Fund 2	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			. 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NI A	Company	Ownership/Influence	75.700	MMLIC		
. 0000			. 37-1506417 . 37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	3.800	MMLIC		
. 0000			37-1506417				Babson Capital Loan Strategies Fund, L.P	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings US High Yield Bond Fund	IRL	NIA	Company	Ownership/Influence	55 . 100	MMLIC		1
. 0000							Barings US High Yield Bond Fund	IRL	NIA	Barings LLC	Management		MMLIC		
. 0000							Babson CLO Ltd. 2013-I	CYM	NI A	Barings LLC	Influence		MMLIC		2
. 0000							Babson CL0 Ltd. 2015-I	CYM	NI A	Barings LLC	Influence		MMI IC		3
. 0000							Babson CLO Ltd. 2015-II	CYM	NI A	Barings LLC	Influence		MM_IC		4
. 0000							Babson CLO Ltd. 2016-I	CYM	NI A	Barings LLC	Influence		MMLIC		1
. 0000							Babson CLO Ltd. 2016-II	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO Ltd. 2017-I	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2018-III	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2018-IV	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000			. 98-1473665				Barings CLO 2019-II	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2019-III	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2019-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-1	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-II	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-III	CYM	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2020-IV	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-I	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings CLO 2021-II	CYM	NIA	Barings LLC	Influence		MMLIC		
			98-1624360				Barings CLO 2021-III	CYM	NIA	Barings LLCBarings LLC	Influence		MMLIC		
. 0000			. 98-1024360				Barings CLO 2022-1	CYM	NIA	Barings LLCBarings LLC	Influence		MMLIC		
. 0000							Babson Euro CLO 2014-1 BV	VM	NIA	Barings LLC	Influence		IMMLIC		
. 0000							Babson Euro CLO 2014-1 BV	NLD	NIA	Barings LLC	Influence		IMMLIC		
. 0000							DADSON EULO ULU ZU14-11 BV	NLU	NIA	Dai ings LLU	IIII ruence		MIVIL I U		

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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							Babson Euro CLO 2015-I BV	NLD	NI A	Barings LLC	Influence		MMLIC		
. 0000			36-037260H				Barings Euro CLO 2019-I BV	IRL	NI A	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2019-II BV	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2020-I DAC	IRL	NI A	Barings LLC	Influence		MMLIC		
. 0000			37-15576VH				Barings Euro CLO 2021-I DAC	IRL	NI A	Barings LLC	Influence		MML IC		
. 0000							Barings Euro CLO 2021-II DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000						***************************************	Barings Euro CLO 2021-III DAC	IRL	NIA	Barings LLC	Influence		MMLIC		
. 0000							Barings Euro CLO 2022-1 DAC	IRL	NIA	Barings LLC	Influence		MMI IC		
. 0000							Ballings Euro CLO 2022-1 DAC	InL	NIA	Massachusetts Mutual Life Insurance	IIII I uelice		WIVILIO		
. 0000			81-0841854				Barings CLO Investment Partners LP	DE	NI A	Company	Ownership/Influence	92.700	MML1C		
. 0000			81-0841854				Barings CLO Investment Partners LP	DE	NIA	Barings LLC	Management	32.700	MMLIC		
. 0000			01-0041004				Barings Centre Street CLO Equity Partnership	DE	NIA	Massachusetts Mutual Life Insurance	management		WINILIU		
. 0000			. 88-3792609				In	DE	NI A	Company	Ownership/Influence	25.300	MMLIC		
. 0000			. 00-3/92009				Lr	DE	NIA	Massachusetts Mutual Life Insurance	ownership/inituence	25.300	WINILIU		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	Company	Ownership/Influence	30 .500	MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NIA	C.M. Life Insurance Company	Ownership	2.700	MMLIC		
1													MMLIC		
. 0000							Barings Euro Value Add II (BREEVA II)	LUX	NI A	Barings LLC	Management		MMLIC		
							Barings Real Estate European Value Add I SCSp			Massachusetts Mutual Life Insurance					
. 0000								GBR	NIA	Company	Ownership/Influence	44.000	MMLIC		
							Barings Real Estate European Value Add I SCSp								
. 0000								GBR	NIA	C.M. Life Insurance Company	Ownership	4.900	MMLIC		
							Barings Real Estate European Value Add I SCSp								
. 0000								GBR	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	Company	Ownership/Influence		MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	C.M. Life Insurance Company	Influence		MMLIC		
. 0000			85-3449260				Barings Real Estate Debt Income Fund LP	DE	NI A	Barings LLC	Management		MMLIC		
. 0000			82-5330194				Barings Global Em. Markets Equity Fund	NC	NI A	Barings LLC	Management		MMLIC		
							Barings Global Energy Infrastructure Fund I			Massachusetts Mutual Life Insurance					
. 0000			98-1332384				LP	CYM	NI A	Company	Ownership/Influence	100.000	MMLIC		
							Barings Global Energy Infrastructure Fund I								
. 0000			98-1332384				LP	CYM	NI A	Baring Asset Management Limited	Management		MMLIC		
. 0000							Barings Global Dividends Champion Fund	IRL	NI A	Barings LLC	Management		MMLIC		
. 0000							Barings LLC	IRL	NIA	Barings LLC			MMLIC		
. 0000			82-3867745				Barings Global Real Assets Fund LP	DE	NI A	MassMutual Holding LLC	Ownership/Influence	26.800	MMLIC		
. 0000		l	82-3867745				Barings Global Real Assets Fund LP	DE	NIA	C.M. Life Insurance Company	Ownership	7.000	MMLIC		
. 0000		I	82-3867745	l	I		Barings Global Real Assets Fund LP	DE	NIA	Barings LLC	Management		MMLIC		l
							Barings Global Special Situations Credit Fund			🧓		[
. 0000							3	IRL	NI A	MassMutual Holding LLC	Ownership/Influence	19.800	MMLIC		l
							Barings Global Special Situations Credit 4			Massachusetts Mutual Life Insurance					
. 0000							Delaware	DE	NI A	Company	Ownership	70.200	MMLIC		
							Barings Global Special Situations Credit 4			. ,					
. 0000							Delaware	DE	NI A	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
		I					Barings Global Special Situations Credit 4								1
. 0000							Delaware	DE	NI A	Barings LLC	Management		MMLIC		
		I					Barings Global Special Situations Credit 4			Massachusetts Mutual Life Insurance					1
. 0000							LUX	LUX	NI A	Company	Ownership	13.200	MMLIC		
		I					Barings Global Special Situations Credit 4								1
. 0000							LUX	LUX	NI A	C.M. Life Insurance Company	Ownership	0.700	MMLIC		
1		1					Barings Global Special Situations Credit 4								
. 0000		l	.1	1	1	l	LUX	LUX	NIA	Barings LLC	Management		MMLIC		l

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		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)	*
	,					,	Barings Global Special Situations Credit Fund		,	,	,	Ŭ	, , , ,	Ì	
. 0000							3	IRL	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings Global Technology Equity Fund	IRL	NI A	Barings LLC	Ownership/Influence	73.000	MML IC		
										Massachusetts Mutual Life Insurance					
. 0000			87-0977058				Barings Hotel Opportunity Venture	CT	NIA	Company	Ownership/Influence	48.700	MMLIC		
. 0000			87-0977058				Barings Hotel Opportunity Venture	CT	NIA	Barings LLC	Management		MML IC		
							Barings Innovations & Growth Real Estate Fund			Massachusetts Mutual Life Insurance					
. 0000			86-3661023					DE	NIA	Company	Ownership	32.800	MMLIC		
							Barings Innovations & Growth Real Estate Fund								
. 0000			86-3661023					DE	NIA	C.M. Life Insurance Company	Ownership	0.500	MMLIC		
. 0000			00 0001020			***************************************	Barings Middle Market CLO 2017-I Ltd & LLC .	CYM	NIA	Barings LLC	Influence	0.000	MMLIC		
. 0000							Barings Middle Market CLO 2018-1	CYM	NIA	Barings LLC	Influence		MMLIC		
. 0000							9-	CYM	NIA	Barings LLC	Influence		MMLIC		
							Barings Middle Market CLO 2019-I			Barings LLC	Influence		MMLIC		
. 0000			98-1612604				Barings Middle Market CLO Ltd 2021-I	CYM	NIA	9					
. 0000			38-4010344				Barings North American Private Loan Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	37.500	MMLIC		
. 0000			38-4010344				Barings North American Private Loan Fund LP	DE	NIA	Baring Asset Management Limited	Management		MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			98-1332384				Barings RE Credit Strategies VII LP	DE	NI A	Company	Ownership/Influence	33.700	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					
. 0000			98-1567942					LUX	NIA	Company	Ownership	18.400	MMLIC		
							Barings Target Yield Infrastructure Debt Fund								
. 0000			98-1567942					LUX	NIA	Baring Asset Management Limited	Management		MMLIC		
. 0000			87-1262754				Barings Transportation Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	11.700	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			87-1262754				Barings Transportation Fund LP	DE	NIA	Company	Ownership	8.200	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Braemar Energy Ventures I, L.P	DE	NIA	Company	Ownership/Influence	89.300	MMLIC		
. 0000							Braemar Energy Ventures I, L.P	DE	NIA	C.M. Life Insurance Company	Ownership	1.300	MMLIC		
. 0000							Braemar Energy Ventures I, L.P	DE	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	MassMutual Holding LLC	Ownership/Influence	7.600	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	C.M. Life Insurance Company	Ownership	0.500	MMLIC		
. 0000							Barings European Core Property Fund SCSp	LUX	NIA	Barings Real Estate Advisers LLC	Management		MML1C		
							5. 5. 2. 2. 2. 2. 2. 2. 2. 2. 2. 3. 2. 3. 2. 3. 2. 3. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.			Massachusetts Mutual Life Insurance					
. 0000		l	46-5001122				Barings European Private Loan Fund III A	LUX	NIA	Company	Ownership	45.200	MMLIC		
. 0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	NY	NIA	Barings LLC	Influence		MMLIC		
. 0000							Benchmark 2018-B4	NY	NIA	Barings LLC	Influence		MMLIC		
. 0000			38-4096530				Benchmark 2018-B8	NY	NIA	Barings LLC	Influence		MMLIC		
. 0000			20-5578089				Barings Core Property Fund LP	DE	NIA	MassMutual Holding LLC	Ownership/Influence	23.300	MMLIC		
. 0000			20-5578089				Barings Core Property Fund LP	DE	NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
. 0000			20-00/6009				barings core Property Fund LF	VE	NIA	Massachusetts Mutual Life Insurance	mariagement		MINILIO		
. 0000			35-2531693				Cornerstone Permanent Mortgage Fund III LLC	MA	NIA	Company	Ownership/Influence		MMLIC		
. 0000			JJ-2JJ 1033				Outrier Stone Fermanent mortgage Fund TTT LLC	MA	NIA	Massachusetts Mutual Life Insurance	Owner Siftp/ Hit ruence	100.000	INVILIO		
. 0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	MA	NIA	Company	Ownership		MMLIC		
. 0000			01-1100100				Outhor Stone Termanent mor tyaye Fund TV LLC		ΝΙΛ	Massachusetts Mutual Life Insurance	omici sittp	100.000	MWILIV		
. 0000		1	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Company	Ownership/Influence	34.800	MMLIC		
. 0000		l	90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	C.M. Life Insurance Company	Ownership	5.200	MMLIC		
. 0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	DE	NIA	Barings LLC	Management	3.200	MMLIC		
. 0000			30-0331133		000109/011		dateway mezzanine raithers ii Lr	VE	NIA	Massachusetts Mutual Life Insurance	manayenlent		INNILIO		
. 0000		1	37-1708623				Great Lakes III, L.P.	DE	NIA	Company	Ownership/Influence	41.400	MMLIC		
. 0000			J1-1100023				UI CAL LANCO III, L.F	VE	NIM	ouiipaity	Towner sittp/ titt ruetice	41.400	WINIT IV		

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											Type	lf			
											of Control	Control			
											(Ownership,	is		Is an	
						Name of Securities			Relation-		Board,	Owner-		SCA	
								Domi-	ship					Filina	
						Exchange			- 1		Management,	ship			
		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			37-1708623				Great Lakes III, L.P.	DE	NI A	Barings LLC	Management		MMLIC		
										Massachusetts Mutual Life Insurance	,				
. 0000					1		GIA EU Holdings - Emerson JV Sarl	LUX	NI A	Company	Ownership/Influence	63.300	MMLIC		
. 0000							GIA EU Holdings - Emerson JV Sarl	LUX	NIA	Barings LLC	Management		MMLIC		
. 0000							JPMCC Commercial Mortgage Securities Trust			Dui mgo LLO	managomorit				
. 0000			38-4041011				2017-JP7	NY	NI A	Barings LLC	Influence		MMLIC:		
. 0000			00 4041011				JPMDB Commercial Mortgage Securities Trust	141		Dai mgs LLO	TITI TUCITOC		I I I I I I I I I I I I I I I I I I I		
. 0000			38-4032059				2017-C5	NY	NI A	Barings LLC	Influence		MML IC		
. 0000		I	00-4002009				2011 00		NIA	Massachusetts Mutual Life Insurance	IIII I UCIICC	1	mmL10		
. 0000			04-1590850		1		Miami Douglas Two GP LLC	DE	NI A	Company	Influence	0.000	MML IC		
. 0000			04-1590850				Miami Douglas Two GP LLC	DE	NI A	C.M. Life Insurance Company	Influence	0.000	MMLIC		
0005								DE		Massachusetts Mutual Life Insurance	l				
. 0000			04-1590850				Miami Douglas Two LP	DE	NI A	Company	Ownership	90.000	MMLIC		
. 0000			04-1590850				Miami Douglas Two LP	DE	NI A	C.M. Life Insurance Company	Ownership	10.000	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	27.800	MMLIC		
. 0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.800	MML IC		
							The state of the s			Massachusetts Mutual Life Insurance					
. 0000							MM CM Holding LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							I I I I I I I I I I I I I I I I I I I	DL		Massachusetts Mutual Life Insurance	omici sirip		I I I I I I I I I I I I I I I I I I I		
. 0000			04-1590850				MM Direct Private Invetment Holding	DE	NI A	Company	Ownership	100.000	MML IC		
. 0000			04-1590650				mm Direct Fillvate invetment noturng	UE	NIA	Massachusetts Mutual Life Insurance	Owner Strip	100.000	WWLTC		
. 0000			81-3000420				MM Debt Participations LLC	DE	NI A	Company	Ownership/Influence	100 .000	MMLIC		
										1 7		100.000			
. 0000			81-3000420				MM Debt Participations LLC	DE	NI A	Barings LLC	Management	+	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NI A	Company	Ownership/Influence	40 . 100	MMLIC		
. 0000			20-8856877				Somerset Special Opportunities Fund L.P	DE	NI A	C.M. Life Insurance Company	Ownership	1.900	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			35-2553915				Ten Fan Pier Boulevard LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000			41-2280127		1		Tower Square Capital Partners III, L.P	DE	NI A	Barings LLC	Management		MMLIC		
. 0000		I	41-2280127	l	1		Tower Square Capital Partners III, L.P	DE	NI A	MassMutual Holding LLC	Ownership/Influence	16 . 500	MMLIC		
							oup turn in the control of the control			Massachusetts Mutual Life Insurance					
. 0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NI A	Company	Ownership/Influence	93.100	MMLIC		
. 0000			41-2280129				Tower Square Capital Partners IIIA, L.P	DE	NIA	Barings LLC	Management		MMLIC		
. 0000			41-2260129				Tower Square Capital Partners IIIA, L.P	uE	NI A	Massachusetts Mutual Life Insurance	management	†	MINIL I U		
0000			04 4500050		1		Tooliside MM Member 11.0	DE	NII A		0	66.970	MMLIC		
. 0000			04-1590850				Trailside MM Member LLC		NI A	Company	Ownership				
. 0000			04-1590850				Trailside MM Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	7.400	MMLIC		
			l							Massachusetts Mutual Life Insurance					
. 0000			04-1590850				Trailside MM Member II LLC	DE	NI A	Company	Ownership		MMLIC		
			1							Massachusetts Mutual Life Insurance					
0000			83-1325764				Washington Gateway Two LLC	DE	NI A	Company	Ownership	96.020	MMLIC		
0000			83-1325764				Washington Gateway Two LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.700	MMLIC	l	
							J			Massachusetts Mutual Life Insurance		1			
0000		1	32-0574045	l	1		Washington Gateway Three LLC	DE	NIA	Company	Ownership	95.380	MMLIC		
. 0000			32-0574045				Washington Gateway Three LLC	DE	NIA	C.M. Life Insurance Company	Ownership.	11.400	MMI IC		
			02-0014040				masimigron vareway iiii ee LLO	UL	NIA	Massachusetts Mutual Life Insurance	omioi sirip	11.400	INVILIO		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NI A	Company	Ownership	93.800	MMLIC		
. 0000			88-3861481				West 37th Street Hotel LLC	DE	NI A	C.M. Life Insurance Company	Ownership	6.300	MMLIC		

13

SCHEDULE Y

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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				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)	*
Code	Gloup Name	Code	Nullibel	KOOD	CIK	international)	Of Allillates	tion	Littly	Massachusetts Mutual Life Insurance	Other)	lage	Littity(les)/Feison(s)	(165/140)	
. 0000							Martello Re	BMU	NIA	Company	Ownership/Influence	0.300	MMLIC		
. 0000							Babson Capital Loan Strategies Master Fund LP	DIVIQ		Company	Owner Strip/ Intruence	0.300	MWLIC		
. 0000							Dabson oup tai Loun ottategres master runa Li	CYM	NIA	Barings LLC	Management		MMLIC		
. 0000							Barings China Aggregate Bond Private			Dai mgs LLC	management		MWLIC		
. 0000							Securities Investment Fund	CHN	NI A	Barings LLC	Management		MM_IC		
. 0000							Barings European Growth Trust Fund	GBR	NI A	Barings LLC	Ownership/Influence	26.000	MMLIC		
. 0000			47-3790192				Barings Global High Yield Fund	MA	NI A	Barings LLC	Management		MMLIC		
. 0000			47 073013 <u>2</u>				CCIC Fund	CHN	NIA	Barings LLC	Ownership/Influence	67.400	MMLIC		
. 0000							OUTO T una			Massachusetts Mutual Life Insurance	owner strip/ titriuctice		MMLIO		
. 0000			71-1018134				Great Lakes LLC	DE	NI A	Company	Ownership	10.600	MM_IC		
. 0000			71–1018134				Great Lakes II LLC	DE	NI A	C.M. Life Insurance Company	Ownership	0.980	MMLIC		
. 0000			71 1010101				drout Euros II EES			Massachusetts Mutual Life Insurance	owner entry				
. 0000			04-1590850				Wood Creek Venture Fund LLC	DE	NI A	Company	Ownership	40.000	MMLIC		
. 0000			13-1935920				MMLIC Debt Participations LLC	DE	NI A	Massachusetts Mutual Ascend	Ownership	100.000	MMLIC	l	
										Massachusetts Mutual Life Insurance					
. 0000							Barings California Mortgage Fund IV	CA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NI A	Company	Ownership	50.000	MMLIC		
. 0000							Barings Umbrella Fund LUX SCSp SICAV RAIF	LUX	NI A	C.M. Life Insurance Company	Ownership	2.300	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	Company	Ownership	90.000	MMLIC		
. 0000			82-2285211				Calgary Railway Holding LLC	DE	NI A	C.M. Life Insurance Company	Ownership	10.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			82-3307907				Cornbrook PRS Holdings LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
0000			05 4007747					0.4		Massachusetts Mutual Life Insurance		400 000	188.10		
. 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	MMI IC		
. 0000			93-4207717				Cornerstone California Mortgage Fund III LLC	UA	NIA	Massachusetts Mutual Life Insurance	Owner Strip	100.000	MWLIC		
. 0000			95-4207717				Outrici storic outriorina mortgage runa irr EEo	CA	NI A	Company	Ownership	100.000	MM_IC		
. 0000			35 4207717					Un		Massachusetts Mutual Life Insurance	Owner strip		MMLIO		
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NI A	Company	Ownership	90.000	MM_IC		
. 0000			56-2630592				Cornerstone Fort Pierce Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC		
							The state of the s			Massachusetts Mutual Life Insurance					
. 0000		[45-2632610				Cornerstone Permanent Mortgage Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
. 0000		l	45-2632610				Cornerstone Permanent Mortgage Fund	MA	NIA	Barings LLC	Management		MMLIC		
		1								Massachusetts Mutual Life Insurance	_				
. 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			61-1793735				Cornerstone Permanent Mortgage Fund IV	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000		·····	. 20-0348173				CREA/PPC Venture LLC	DE	NIA	Company	Ownership	28.500	MMLIC		
0000			00 0700000				Denville Diverselle Venture 11.0	חר	ALL A		0	04 400	188 10		
. 0000			. 82–2783393				Danville Riverwalk Venture, LLC	DE	NIA	Company	Ownership	94.400	MMLIC		
. 0000		1	04-1590850				DPI Acres Capital SPV LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
. 0000			. 04-1080000				DI I ACIES CAPITAL SEVILLO	UE	NIA	Massachusetts Mutual Life Insurance	owner sirip	100.000	INNIL I C		
. 0000		1	04-1590850				Euro Real Estate Holdings LLC	DE	NI A	Company	Ownership	50.000	MMLIC		
. 5550							Za. 5 Sur Lotato norumgo LLO	02		Massachusetts Mutual Life Insurance					
. 0000		I	20-3347091	l	l		Fan Pier Development LLC	DE	NIA	Company	Ownership	65.000	MMLIC	[]	
. 0000			1 00 00 !							1 p /	,			1	

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SCHEDULE Y

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1	2	3	4	5	6	7	8	9	10	11	12 Type of Control	13 If Control	14	15	16
											(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	Croup Hume	0000	20-3347091	ROOD	Unit	international)	Fan Pier Development LLC	DE	NIA	C.M. Life Insurance Company	Ownership	5.900	MMLIC	(100/110)	
. 0000			20 004/001				Tail Fiel Development LLO	bL		Massachusetts Mutual Life Insurance	Owner Strip		WWL10		
. 0000			04-1590850				GIA EU Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			81-5360103				Landmark Manchester Holdings LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-1590850				MM Brookhaven Member LLC	DE	NI A	Company	Ownership	95.000	MMLIC		
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Massachusetts Mutual Life Insurance	Ownership	82.700	MMLIC		1
. 0000			04-1590850						NIA	Company	Ownership	12.300	MMLIC		
. 0000			04-1590850				MM Kannapolis Industrial Member LLC	DE	NIA	Massachusetts Mutual Ascend	Uwnersnip	12.300	. MMLIC		
. 0000			04-1590850				MM East South Crossing Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		1
. 0000			04 1000000				Last Godth Grossing monber LEG	bL		Massachusetts Mutual Life Insurance	owner strip		WWL10		
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	Company	Ownership	95.000	MMLIC		1
. 0000			04-1590850				MM Horizon Savannah Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	3.700	MMLIC		
. 0000			04-1590850				MM National Self-Storage Program Member LLC	DE	NIA	C.M. Life Insurance Company	Ownership	98.000	MMLIC		
. 0000			04-1590850				MM 1400 E 4th Street Member LLC	DE	NI A	C.M. Life Insurance Company	Ownership	96.000	MMLIC		1
										Massachusetts Mutual Life Insurance	·				1
. 0000			80-0948028				One Harbor Shore LLC	DE	NIA	Company	Ownership	94.990	MMLIC		
. 0000			80-0948028				One Harbor Shore LLC	DE	NIA	C.M. Life Insurance Company	Ownership	6.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-1590850				PACO France Logistics LLC	DE	NI A	Company	Ownership	100.000	MMLIC		
. 0000							Salomon Brothers Commercial Mortgage Trust 2001-MM	DE	NIA	Barings Real Estate Advisers LLC	Influence		MMLIC		1
. 0000							2001-11111	VE	NIA	Massachusetts Mutual Life Insurance	Initiuence		MWLIC		
. 0000			81-5273574				Three PW Office Holding LLC	DE	NI A	Company	Ownership	95.100	MMLIC		1
			0. 02.00				00 1 11 01 1100 1101 111 11 11 11 11 11	52		Massachusetts Mutual Life Insurance					
. 0000			82-3250684				Unna, Dortmund Holding LLC	DE	NIA	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 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	NIA	C.M. Life Insurance Company	Ownership	4.800	MMLIC		
			5.4 0500000							Massachusetts Mutual Life Insurance					1
. 0000			51-0529328		0000927972		MassMutual Premier Main Street Fund	MA	NIA	Company Massachusetts Mutual Life Insurance	Ownership		MMLIC		
. 0000			26-3229251		0000927972		MassMutual Premier Strategic Emerging Markets	MA	NIA	Company	Ownership	27 . 100	MMLIC		1
. 0000			20-3223231		0000321312		I uliu	IMA	NIA	Massachusetts Mutual Life Insurance	owner strip	27 . 100	WWILL TO		
. 0000			04-3512593		0000916053		MassMutual Select Fundamental Growth Fund	MA	NIA	Company	Ownership	3.400	MMLIC		l
										Massachusetts Mutual Life Insurance					1
. 0000			42-1710935		0000916053		MassMutual Select Mid-Cap Value Fund	MA	NI A	Company	Ownership	29.200	MMLIC		
							MassMutual Select Small Capital Value Equity			Massachusetts Mutual Life Insurance					1
. 0000			02-0769954		0000916053		Fund	MA	NI A	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			04-3584140		0000916053		MassMutual Select Small Company Value Fund . MassMutual Select T. Rowe Price Retirement	MA	NIA	Company	Ownership	18.200	MMLIC		
. 0000			82-3347422		0000916053		2005 Fund	MA	NIA	Company	Ownership	5.400	MM_IC	1	1
. 0000			02-0041422		66000 10000		MassMutual Select T. Rowe Price Retirement	MA	INI M	Massachusetts Mutual Life Insurance	Owner SITP	5.400	WWLIO		
. 0000		l	82-3355639		0000916053		2010 Fund	MA	NIA	Company	Influence	0.000	MMLIC		I I
			0000000				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3382389		0000916053		2015 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
		1					MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance				1	1
. 0000			82-3396442		0000916053		2020 Fund	MA	NI A	Company	Influence	0.000	MMLIC		

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SCHEDULE Y

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											Type	lf			ı İ
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						Name of Securities			Relation-		Board,	Owner-		SCA	ı İ
						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.Š. 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)	*
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			82-3417420		0000916053		2025 Fund	MA	NI A	Company	Influence	0.000	MMLIC		
0000			82-3430358		0000916053		MassMutual Select T. Rowe Price Retirement	MA	NILA	Massachusetts Mutual Life Insurance	lath	0.000	188 10		1
. 0000			82-3430338		0000916053		2030 Fund	MA	NIA	Company	Influence	0.000	MMLIC		1
. 0000			82-3439837		0000916053		2035 Fund	MA	NIA	Company	Influence	0.000	MM_IC		1
. 0000			02 0100001				MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance	THI TUSTION				1
. 0000			82-3451779		0000916053		2040 Fund	MA	NI A	Company	Influence	0.000	MMLIC		1
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3472295		0000916053		2045 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3481715		0000916053		2050 Fund	MA	NIA	Company	Influence	0.000	MMLIC		
. 0000			82-3502011		0000916053		MassMutual Select T. Rowe Price Retirement 2055 Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MM_IC		1
. 0000			02-0002011		0000310033		MassMutual Select T. Rowe Price Retirement	ma	NIA	Massachusetts Mutual Life Insurance	IIII Tuence		INVILIO		
. 0000		l	82-3525148		0000916053		2060 Fund	MA	NI A	Company	Influence	0.000	MMLIC		i l
							MassMutual Select T. Rowe Price Retirement			Massachusetts Mutual Life Insurance					1
. 0000			82-3533944		0000916053		Balanced Fund	MA	NIA	Company	Influence	0.000	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			46-4257056				MML Series International Equity Fund	MA	NIA	Company	Influence	100.000	MMLIC		
. 0000			47-3529636				MML Series II Dynamic Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Influence	0.000	MMLIC		1
. 0000			47-0023000				minic Series II Dynamic Bond Fund	ma	NIA	Massachusetts Mutual Life Insurance	IIII Tuence		INVILIO		
. 0000			47-3544629				MML Series II Equity Rotation Fund	MA	NI A	Company	Ownership	95.800	MMLIC		I I
										Massachusetts Mutual Life Insurance					1
. 0000			27-1933389		0000916053		MassMutual RetireSMART 2035 Fund	MA	NI A	Company	Ownership	3.900	MMLIC		
0000			27-1932769		0000916053		W W + D + OWDT 0045 F	MA		Massachusetts Mutual Life Insurance		8.800	188.10		1
. 0000			27-1932/69		0000916053		MassMutual RetireSMART 2045 Fund	MA	NIA	Company	Ownership	8.800	MMLIC		
. 0000			46-3289207		0000916053		MassMutual RetireSMART 2055 Fund	MA	NIA	Company	Ownership	22.900	MM_IC		1
			020020				2555 1 4.14			Massachusetts Mutual Life Insurance	5				ı l
. 0000			47-5326235		0000916053		MassMutual RetireSMART 2060 Fund	MA	NI A	Company	Ownership	43.800	MMLIC		
										Massachusetts Mutual Life Insurance					1
. 0000			45-1618155		0000916053		MassMutual 20/80 Allocation Fund	MA	NI A	Company	Influence	100.000	MMLIC		
. 0000			45-1618222		0000916053		MassMutual 80/20 Allocation Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership	51.600	MMLIC		1
. 0000			45-1010222		0000310033		massmutuar 60/20 Arrocatron runu	m/\	NIA	Massachusetts Mutual Life Insurance	owner strip		I WWL TO		
. 0000		l	03-0532464		0000916053		MassMutual RetireSMART In Retirement Fund	MA	NI A	Company	Ownership	2.000	MMLIC		i l
										Massachusetts Mutual Life Insurance					1
. 0000			45-1618262		0000916053		MassMutual 40/60 Allocation Fund	MA	NIA	Company	Influence	100.000	MMLIC		
			15 1010010							Massachusetts Mutual Life Insurance		400.000			1
. 0000			45-1618046		0000916053		MassMutual 60/40 Allocation Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			45-1618046		0000916053		MassMutual ishares 60/40 Allocation Fund	MA	NIA	Company	Ownership	78.400	MMLIC		1 1
								m/1		Massachusetts Mutual Life Insurance					
. 0000			04-3212054		0000916053		MassMutual Balanced Fund	MA	NI A	Company	Ownership	100.000	MMLIC		[]
										Massachusetts Mutual Life Insurance					1 1
. 0000			04-3556992		0000916053		MassMutual Blue Chip Growth Fund	MA	NIA	Company	Ownership	100.000	MMLIC		
. 0000			04-3277549		0000916053		MassMutual Core Bond Fund	MA	NIA	Massachusetts Mutual Life Insurance Company	Ownership		MMLIC		1 1
. 0000			04-0211048		66000 60000		massmutuai coi e dollu fullu	WA	NIA	Massachusetts Mutual Life Insurance	Owner SITIP	100.000	INNVILIO		
. 0000			04-3539084		0000916053		MassMutual Disciplined Growth Fund	MA	NIA	Company	Ownership	100.000	MMLIC		I I
										1 1 /		r			

SCHEDULE Y

											<u> </u>				
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	
		NAIG					NI f		- 1						
		NAIC				if Publicly Traded	Names of	ciliary	to	5: " 6 : " 11	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			04-3539083		0000916053		MassMutual Disciplined Value Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			01-0821120		0000916053		MassMutual Diversified Value Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3512590		0000916053		MassMutual Equity Opportunities Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3512589		0000916053		MassMutual Growth Opportunities Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
							MassMutual Inflation-Protected and Income			Massachusetts Mutual Life Insurance					
. 0000			03-0532475		0000916053		Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3512596		0000916053		MassMutual Mid Cap Growth Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3464165		0000916053		MassMutual Premier Diversified Bond Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
							MassMutual RetireSMART by JPMorgan 2065 Fund			Massachusetts Mutual Life Insurance					
. 0000			92-1441036		0000916053			MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			45-1618222		0000916053		MassMutual Select 80/20 Allocation Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3584138		0000916053		MassMutual Select Fundamental Value Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3557000		0000916053		MassMutual Select Overseas Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
							MassMutual Select T Rowe Price Retirement			Massachusetts Mutual Life Insurance					
. 0000			92-1427882		0000916053		2065 Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
										Massachusetts Mutual Life Insurance					
. 0000			04-3464205		0000916053		MassMutual Small Cap Growth Equity Fund	MA	NI A	Company	Ownership	100.000	MMLIC		l
										Massachusetts Mutual Life Insurance					
. 0000			04-3424705		0000916053		MassMutual Small Cap Opportunities Fund	MA	NI A	Company	Ownership	100.000	MMLIC		
						1		1		Massachusetts Mutual Life Insurance		1		1	1
. 0000			02-0769954		0000916053	l	MassMutual Small Cap Value Equity Fund	MA	NI A	Company	Ownership	100.000	MMLIC	l	I l
										Massachusetts Mutual Life Insurance					
. 0000			26-0099965		0000916053	l	MassMutual Strategic Bond Fund	MA	NI A	Company	Ownership	100.000	MMLIC		l l
										1 /					
				1	1	1	l .		1	ı	ı		1		

Asterisk	Explanation
1 Ma	Massachusetts Mutual Life Insurance Company owns 14.23% of the affiliated debt of Jefferies Finance LLC
2 De	Debt investors own 9.6% and includes only Babson Capital Loan Strategies Fund, L.P.
3 De	Debt investors own .5% and includes only Great Lakes III, L.P.
	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.

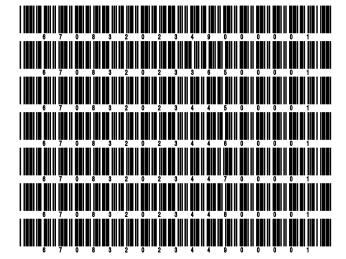
		Response
1.	Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2.	Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3.	Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
5.	Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC?	NO
6.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
7.	Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
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.	

The data for this supplement is not required to be filed.
 Bar Code:

1. Trusteed Surplus Statement [Document Identifier 490]

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.

- 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]



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 e		
7.	Deduct current year's other than temporary impailment reducitied		
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/rectated investment executed accrued attrests		
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	111,899,875	106,415,916
2.	Cost of bonds and stocks acquired	3,884,480	14,016,958
3.	Accrual of discount	101,282	397,796
4.	Unrealized valuation increase (decrease)	0	46,833
5.	Total gain (loss) on disposals	(668,803)	(2,359)
6.	Deduct consideration for bonds and stocks disposed of	5,830,541	8,831,270
7.	Deduct amortization of premium	24,082	132,343
8.	Total foreign exchange change in book/adjusted carrying value	0	0
9.	Deduct current year's other than temporary impairment recognized	0	11,656
10.	Total investment income recognized as a result of prepayment penalties and/or acceleration fees	0	0
11.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	109,362,211	111,899,875
12.	Deduct total nonadmitted amounts		0
13.	Statement value at end of current period (Line 11 minus Line 12)	109,362,211	111,899,875

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

	ing the Current Quarter to	2	3	4	5	6	7	8
	Book/Adjusted Carrying Value	Acquisitions	Dispositions	Non-Trading Activity	Book/Adjusted Carrying Value	Book/Adjusted Carrying Value	Book/Adjusted Carrying Value	Book/Adjusted Carrying Value
	Beginning	During	Dispositions	During Activity	End of	End of	End of	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)	53.858.078	3.884.480	1.638.886	6.536.005	62.639.677	0	0	53,858,078
2. NAIC 2 (a)	,	16.983.954	, - ,	, ,	52.101.414		0	58,290,239
3. NAIC 3 (a)	, , , , , ,	, ,	, ,		154,811		0	
4. NAIC 4 (a)	· ·	0	· · · · · · · · · · · · · · · · · · ·		,	0	0	,
5. NAIC 5 (a)	, ,	0			, ,	0		2,426,970
6. NAIC 6 (a)		0		(1,011,112)	974.784	0	0	2,720,070
	116.984.752	20.868.434	26.587.232	6.532.865	117.798.819	0	0	116,984,752
7. Total Bonds	110,964,752	20,000,434	20,387,232	0,032,000	117,790,019	U	U	110,964,752
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	
13. NAIC 6	0	0	0	0	0	0	0	
14. Total Preferred Stock	0	0	0	0	0	0	0	0
15. Total Bonds and Preferred Stock	116.984.752	20.868.434	26.587.232	6.532.865	117,798,819	0	0	116,984,752

(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	12,521,902	21,456,915
2.	Cost of cash equivalents acquired	16,983,954	135,192,274
3.	Accrual of discount	18,639	0
4.	Unrealized valuation increase (decrease)		4,977
5.	Total gain (loss) on disposals	451	(36)
6.	Deduct consideration received on disposals	21,088,339	144, 132, 229
7.	Deduct amortization of premium		0
8.	Total foreign exchange change in book/adjusted carrying value		0
9.	Deduct current year's other than temporary impairment recognized		0
10.	Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)		
11.	Deduct total nonadmitted amounts		0
12.	Statement value at end of current period (Line 10 minus Line 11)	8,436,607	12,521,902

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**

Μ

STATEMENT AS OF MARCH 31, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

			SHOW All L	ong-Term Bonds and Stock Acquired During the Current Quarte					
1	2	3	4	5	6	7	8	9	10
									NAIC
									Designation,
									NAIC
									Designation
									Modifier
									and
									SVO
					Number of			Paid for Accrued	Admini-
CUSIP			Date		Shares of			Interest and	strative
Identification	Description	Foreign	Acquired	Name of Vendor	Stock	Actual Cost	Par Value	Dividends	Symbol
592179-KF-1	Metropolitan Life Global-SECURED		01/04/2023	JP MORGAN SECURITIES			1,000,000	0	1.D FE
693475-BK-0	PNC Financial Services G-SENIOR UNSECURE		01/04/2023	SUNTRUST CAPITAL MAR		1,015,440	1,000,000	5,057	1.G FE
76209P-AB-9	RGA Global Funding-SECURED		01/04/2023	WELLS FARGO		861,640	1,000,000		1.E FE
60687Y-CL-1	Mizuho Financial Ğroup I-SENIOR UNSECURE	D	01/04/2023	RBC CAPITAL MARKETS		1,004,550	1,000,000	16,994	1.G FE
1109999999. S	ubtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)					3,884,480	4,000,000	34,651	XXX
	otal - Bonds - Part 3					3,884,480	4,000,000	34,651	
2509999998. T	otal - Bonds - Part 5					XXX	XXX	XXX	XXX
2509999999. T						3,884,480	4,000,000	34,651	
4509999997. T	otal - Preferred Stocks - Part 3					0	XXX	0	XXX
4509999998. T	otal - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX
4509999999. T	otal - Preferred Stocks					0	XXX	0	XXX
	otal - Common Stocks - Part 3					0	XXX	0	XXX
5989999998. T	otal - Common Stocks - Part 5					XXX	XXX	XXX	XXX
	otal - Common Stocks					0	XXX	0	XXX
5999999999. T	otal - Preferred and Common Stocks					0	XXX	0	XXX
6009999999 - 7	Fotals					3,884,480	XXX	34,651	XXX

SCHEDULE D - PART 4

					Snow All Lo	ng-Term Bo	onas ana Sto	ck 50ia, Rei	aeemea or C	Jinerwise L	Jisposea (of During th	ne Current Qua	arter						
1	2	3	4	5	6	7	8	9	10				Carrying Value	16	17	18	19	20	21	22
•	_		-	_						11	12	13	, ,	15						NAIC
																				Desig-
																				nation,
																				NAIC
													Total T	otal						Desig-
												Current		preign				Bond		nation
												Year's		change Book/				Interest/		Modifier
									Prior Year		Current	Other Than		ange in Adjuste	Foreign			Stock	Stated	and
									Book/	Unrealized	Year's	Temporary		Book Carryin		Realized		Dividends	Con-	SVO
CUSIP					Number of				Adjusted	Valuation	(Amor-	Impairment		ljusted Value a	Gain	Gain	Total Gain	Received	tractual	Admini-
Ident-		For-	Disposal	Name	Shares of	Consid-		Actual	Carrying	Increase/	tization)/	Recog-		rrying Disposa			(Loss) on	During	Maturity	strative
ification	Description	eign	Date	of Purchaser	Stock	eration	Par Value	Cost	Value	(Decrease)	Accretion	nized	,	'alue Date	Disposal	Disposal	Disposal	Year	Date	Symbol
36207H-VH-7	·	1	. 03/01/2023 .	PAYDOWN		97	97	98	96	0	1	0	1	0	970	0	0	1	. 06/01/2026 .	1.A
36208C-Y9-2			. 03/01/2023 .	PAYDOWN		33				0	0	0	0	0	33	0	0	0	. 06/01/2027 .	1 A
	99. Subtotal - Bonds - U.S. Governme	nts	. 00/01/2020 .	TATIBOTIA		130	130	131	129	0	1	0	1	0	30 0	0	0	1	XXX	XXX
31287P-D8-3			. 03/01/2023 .	PAYDOWN	ĺ	84	84	84	79	0	5		5		840	0	0	1	. 02/01/2032 .	1.A
31287F-D0-3			. 03/01/2023 .	PAYDOWN		89	89	90	87					n	890			1	. 05/01/2032 .	1.A
31287S-FS-1	Freddie Mac Gold Pool-FG C66477		. 03/01/2023 .	PAYDOWN		120	120	121	115				5	n	200			1	. 04/01/2032 .	1.A
31287T-GK-5			. 03/01/2023 .	PAYDOWN		35	35	35	32					n	35 0				. 05/01/2032 .	1 A
31287U-EQ-1	Freddie Mac Gold Pool-FG C68243		. 03/01/2023 .	PAYDOWN		47	47	47	23	0	24	0	24	0	470	0		1	. 06/01/2032 .	1.A
31288H-7A-2			. 03/01/2023 .	PAYDOWN		2,748	2,748		2,274	0		0		0		0		36	. 05/01/2033 .	1.A
31292G-5V-4			. 03/01/2023 .	PAVDOWN		189	189	190	167	0	22	0	22		890	0	0	2	. 09/01/2029 .	1 A
31292H-NH-3			. 03/01/2023 .	PAYDOWN		1,379	1,379	1,384	1,091	0		0	288		-	0		12	. 02/01/2032 .	1 A
31292H-QN-7	Freddie Mac Gold Pool-FG C01361		. 03/01/2023 .	PAYDOWN		515	515	520	486	0	29	0	29		150	0	0	1	. 05/01/2032 .	1.A
313398-FC-8			. 03/01/2023 .	PAYDOWN		545	545	524	629	0	(84)	0	(84)		450	0		6	. 07/01/2031 .	1 A
3133TT-RX-1	Freddie Mac REMICS-FHR 2329 ZA		. 03/01/2023 .	PAYDOWN		4.483	4.483	4,258	4,984	0	(501)	0	(501)	0		0	0	//8	. 06/01/2031 .	1 A
3133TV-EW-2			. 03/01/2023 .	PAYDOWN		603	603	597	598	0	6	0	(301)		030	0		7	. 09/01/2031 .	1.A
313920-CW-8			. 03/01/2023 .	PAYDOWN		4,845	4,845	4,863	5,275	0	(430)	0	(430)		-	0	0	50	. 07/01/2031 .	1.A
606092-EU-4			. 01/01/2023 .	MATURITY		1,500,000	1,500,000	1,500,000	1.500.000	0	(400)	0	0	01.500.		0	0		. 01/01/2023 .	1.F FE
678553-AN-8			. 03/01/2023 .	PAYDOWN		1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0	01,000,		0		0	. 03/01/2023 .	1 A
690353-RX-7	United States Internatio-UNSECURED		. 02/27/2023 .	SINKING PAYMENT		70,305	70,305	70,305	70,313	0	(8)	0	(8)	0		0	0	1,561	. 02/27/2027 .	1.A
92812U-03-5			. 03/25/2023 .	CALL 100		20.926	20,926	20,926	20.886	0	0	0	0	020.		39	39	220	. 12/25/2043 .	1.A FE
	99. Subtotal - Bonds - U.S. Special Re	evenu		ONEE 100	J	2.606.913	2.606.913	2.606.764	2.607.039	0	(166)	0	(166)	0 2.606.			39	46.785	XXX	XXX
02665U-AA-3	AMERICAN HOMES 4 RENT-SERIES 2014-SFR2 C		. 03/01/2023 .	PAYDOWN		2,784	2,784	2,863	2,798	0	(14)		(14)	02,		- 00	0		. 10/01/2036 .	1.A FE
05949T-AX-7	Banc of America Funding -BAFC 2006-1 1A2		. 03/01/2023 .	PAYDOWN		2,319	2,319			0	23	0	23	0				1		
12667F-EG-6	· ·														19	0	0	20	. 01/01/2036 .	1.A FM
126694-LC-0			. 03/01/2023 .	PAYDOWN						0	l1	0	1			0	0	20	. 01/01/2036 . . 04/01/2034 .	1.A FM
			. 03/01/2023 .	PAYDOWN		332	332	327	331	0	1 73	0	1 73	0	320	0	0		. 04/01/2034 .	1.A FM 1.A FM 5.C FM
16165Y-AV-4	CHL Mortgage Pass-Throug-CWHL 2005-24 A3						332 791	327		0	1 73 267	0	173 267	0		0	0			1.A FM
16165Y-AV-4 40432B-AZ-2	CHL Mortgage Pass-Throug-CWHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F		. 03/01/2023 .	PAYDOWN			332 791 773	327 729 671	331 779 508	0		0 0 0		0	320 890 830	0	0		. 04/01/2034 . . 11/01/2035 . . 08/01/2037 .	1.A FM 5.C FM
	CHL Mortgage Pass-Throug-CWHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6		. 03/01/2023 . . 03/01/2023 .	PAYDOWN			332 791	327 729		0	267	0 0 0	267	0	320 890 830 260	0 0 0 0	0		. 04/01/2034 . . 11/01/2035 .	1.A FM 5.C FM 1.A FM
40432B-AZ-2	CHL Mortgage Pass-Throug-CWHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6		. 03/01/2023 . . 03/01/2023 . . 12/01/2022 .	PAYDOWN				327 729 671 2,002	331 779 508 966	0	267	0 0 0 0	267	0	32	0 0 0 0	0	20 5 12 8	. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 .	1.A FM 5.C FM 1.A FM 3.A FM
40432B-AZ-2 46617F-AA-2	CHL Mortgage Pass-Throug-CHHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSHPT XXVIII LLC-HENDR 2013-1A A		. 03/01/2023 . . 03/01/2023 . . 12/01/2022 . . 03/15/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN			332 791 773 2,326			0 0 0 0	267 1,360 5	0 0 0 0 0	267	0	32	0 0 0 0 0	0 0 0 0 0 0		. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 . . 04/15/2067 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE
40432B-AZ-2 46617F-AA-2 655844-BL-1	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-C1-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE		. 03/01/2023 . . 03/01/2023 . . 12/01/2022 . . 03/15/2023 . . 02/15/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY									267 1,3605	0	32	0 0 0 0 0 0 0	0 0 0 0		. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 . . 04/15/2067 . . 02/15/2023 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-C1-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE		. 03/01/2023 . . 03/01/2023 . . 12/01/2022 . . 03/15/2023 . . 02/15/2023 . . 03/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC									267 1,3605	0	32		0 0 0 0		. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 . . 04/15/2067 . . 02/15/2023 . . 02/15/2028 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LECH CORP S NT NORFOLK SOUTHERN CORP S NT Sprint Spectrum Co LLC /-FIRST LIEN	Aiscell	. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFER IESLLC SINKING PAYMENT SINKING PAYMENT						0 0 0 0 0 0 0 0 0			267 1,3605	0	32	0	0 0 0 0		. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 . . 04/15/2067 . . 02/15/2023 . . 02/15/2028 . . 03/20/2025 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LLC-MENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN	/liscell	. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFER IESLLC SINKING PAYMENT SINKING PAYMENT						0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	322	0		20 5 5 12 8 30 32 14, 167 53, 042 1,481 532 69,349	. 04/01/2034 . . 11/01/2035 . . 08/01/2037 . . 09/01/2037 . . 04/15/2067 . . 02/15/2023 . . 02/15/2028 . . 03/20/2025 . . 07/02/2025 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE 2.A FE 1.C FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JOHPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99 Subtotal - Bonds - Industrial and N Dresdner Funding Trust I-CMZB 8.151 06/3		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						Ü		0			322	0 0 (606,368) (62,475)			. 04/01/2034 11/01/2035 08/01/2037 09/01/2037 04/15/2067 02/15/2023 02/15/2028 03/20/2025 XXX 06/30/2031 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE 2.A FE 1.C FE XXX 3.C FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSMPT XXVIII LLC-HENDR 2013-1A A NOFFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99 Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0		0			32	0 (606,368) (62,475) (62,475)		20 5 5 12 8 30 32 14, 167 53, 042 1,481 532 69,349	. 04/01/2034 11/01/2035 08/01/2037 09/01/2037 04/15/2067 02/15/2023 02/15/2028 03/20/2025 XXX 06/30/2031 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE 1.C FE XXX 3.C FE XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JOHPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99 Subtotal - Bonds - Industrial and N Dresdner Funding Trust I-CMZB 8.151 06/3		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0		0			32	0 (606,368) (62,475) (62,475)		20	. 04/01/2034 11/01/2035 08/01/2037 09/01/2037 04/15/2067 02/15/2023 02/15/2028 03/20/2025 XXX 06/30/2031 .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE 2.A FE 1.C FE XXX 3.C FE
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 11099999 6156F-AA-1 130999999 250999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0		0			32				. 04/01/2034 11/01/2035 08/01/2037 09/01/2037 09/01/2037 02/15/2067 02/15/2023 02/15/2028 03/20/2025 07/02/2025 06/30/2031 XXX	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 2.A FE 6. FE 2.A FE 1.C FE XXX 3.C FE XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AN-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGMPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Heal theare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and N Dresdner Funding Trust I -CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)				327 729 671 2,002 5,984 11,080,739 11,966,240 125,000 19,676 3,206,499 809,233 6,622,627	331 779 508 966 5,983 976,000 1,980,723 125,000 19,676 3,115,060 775,870 775,870 6,498,098	0 XXX		0 0 0 XXX 0	267	0	32	0 (606,368) (62,475) (62,475) (668,804) XXX		20	. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2023 03/20/2025 07/02/2025 XXX 06/30/2031 XXX XXX .	1.A FM 5.C FM 1.A FM 1.A FE 2.A FE 6. FE 2.A FE 1.C FE XXX 3.C FE XXX XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 ZF HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSMPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and N Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5 99. Total - Bonds 97. Total - Preferred Stocks - Part 4		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0 XXX 0 0		0 0 0 XXX 0 0	267	0	32			20	. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2023 03/20/2025 XXX 06/30/2031 XXX XXX XXX .	1.A FM 5.C FM 1.A FM 3.A FM 3.A FM 2.A FE 6. FE 2.A FE 1.C FE XXX 3.C FE XXX XXX XXX XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSMPT XXVIII LLC-HENDR 2013-1A A NOFFOLK SOUTHERN CORP SN NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds 97. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 4		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0 XXX		0 0 0 XXX 0 0 XXX	267	0	32			20	. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2028 03/20/2025 XXX 06/30/2031 XXX XXX XXX XXX XXX .	1.A FM 5.C FM 1.A FM 3.A FM 2.A FE 6. FE 1.C FE XXX XXX XXX XXX XXX XXX XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999 450999999	CHL Mortgage Pass-Throug-CMHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSMPT XXVIII LLC-HENDR 2013-1A A NOFFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds 99. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 XXX 0 0 XXX		0 0 0 XXX 0 0 XXX	267	0 0 2, 0 0 976, 0 0 199 0 1,981, 0 0 174, 0 774, 0 774, 0 6,499, 0 6,499, 0 0 0 0	32			20	. 04/01/2034 11/01/2035 08/01/2037 09/01/2037 09/01/2037 02/15/2023 02/15/2028 03/20/2025 07/02/2025 XXX . XXX . XXX . XXX . XXX . XXX . XXX . XXX . XXX	1.A FM 5.C FM 1.A FM 3.A FM 2.A FE 6. FE 1.C FE XXX XXX XXX XXX XXX XXX XXX XXX XX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AM-1 8721M-AM-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999 450999999 450999999 598999999	CHL Mortgage Pass-Throug-CIIHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSINPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SN NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5 99. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0 XXX 0 0 XXX		0 0 XXX 0 0 XXX		0	32			20 5 12 8 30 30 32 14,167 53,042 1,481 532 69,349 45,510 45,510 161,645 XXX 161,645 0 XXX	. 04/01/203411/01/203508/01/203709/01/203709/01/203702/15/202302/15/202803/20/202507/02/2025XXX .XXX .XXX .XXX .XXX .XXX .XXX .	1.A FM 5.C FM 1.A FM 3.A FM 1.A FE 6. FE 2.A FE 1.C FE XXX XXX XXX XXX XXX XXX XXX XXX XX
404328-AZ-2 46617F-AA-2 655844-BL 1 81721M-AM-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999 450999999 450999999 598999999	CHL Mortgage Pass-Throug-CIIHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSINPT XXVIII LLC-HENDR 2013-1A A NORFOLK SOUTHERN CORP SR NT Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and N Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5 99. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5 99. Total - Common Stocks - Part 4 98. Total - Common Stocks - Part 4 98. Total - Common Stocks - Part 5		. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)					331 779 508 966 5,983 976,000 1,980,723 125,000 1,967,600 775,870 775,870 6,498,098 XXX 6,498,098 0 XXX 0 0 XXX	0 0 0 XXX 0 0 XXX		0 0 XXX 0 0 XXX 0 0 XXX	267	0	32			20	. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2023 03/20/2025 03/20/2025 XXX 06/30/2031 XXX .	1.A FM 5.C FM 1.A FM 1.A FE 2.A FE 6. FE 2.A FE XXX XXX XXX XXX XXX XXX XXX XXX XX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AN-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999 450999999 450999999 598999999 598999999	CHL Mortgage Pass-Throug-CIIHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JGNPT XXVIII LLC-HENDR 2013-1A A DIVERSI TALL SOUTHERN CORP SR NT Diversified Heal theare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and N Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5 99. Total - Bonds 97. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5 97. Total - Preferred Stocks - Part 5 97. Total - Common Stocks - Part 4 98. Total - Common Stocks - Part 5	es	. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0 XXX 0 0 XXX		0 0 XXX 0 0 XXX 0 0 XXX 0 0 XXX	267		32				. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2028 03/20/2025 07/02/2025 XXX 06/30/2031 XXX .	1.A FM 5.C FM 1.A FM 1.A FE 2.A FE 1.A FE 2.A FE 1.C FE 2.XXX 3.C FE XXX XXX XXX XXX XXX XXX XXX XXX XXX
40432B-AZ-2 46617F-AA-2 655844-BL-1 81721M-AN-1 85208N-AD-2 90783T-AA-8 110999999 26156F-AA-1 130999999 250999999 250999999 450999999 450999999 450999999 598999999	CHL Mortgage Pass-Throug-CIIHL 2005-24 A3 ChaseFlex Trust Multi-CI-CFLX 2007-M1 2F HSI Asset Loan Obligatio-HALO 2007-2 3A6 JSIPT XXVIII LLC-HENDR 2013-1A A DIVERTXIII LLC-HENDR 2013-1A A Diversified Healthcare T-SENIOR UNSECURE Sprint Spectrum Co LLC /-FIRST LIEN Union Pacific Railroad C-FIRST LIEN 99. Subtotal - Bonds - Industrial and M Dresdner Funding Trust I-CMZB 8.151 06/3 99. Subtotal - Bonds - Hybrid Securitie 97. Total - Bonds - Part 4 98. Total - Bonds - Part 5 99. Total - Preferred Stocks - Part 4 98. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5 99. Total - Preferred Stocks - Part 5 99. Total - Common Stocks - Part 4 98. Total - Common Stocks - Part 5 99. Total - Common Stocks - Part 5 99. Total - Common Stocks - Part 5	es	. 03/01/2023 . 03/01/2023 . 12/01/2022 . 03/15/2023 . 02/15/2023 . 03/02/2023 . 03/20/2023 . 01/02/2023 .	PAYDOWN PAYDOWN PAYDOWN PAYDOWN MATURITY JEFFERIESLLC SINKING PAYMENT affiliated)						0 0 0 XXX 0 0 XXX		0 0 XXX 0 0 XXX 0 0 XXX 0 0 0 XXX	267	0	32			20 5 12 8 30 30 32 14,167 53,042 1,481 532 69,349 45,510 45,510 161,645 XXX 161,645 0 XXX	. 04/01/2034 11/01/2035 08/01/2037 08/01/2037 04/15/2067 02/15/2023 02/15/2023 03/20/2025 03/20/2025 XXX 06/30/2031 XXX .	1.A FM 5.C FM 1.A FM 1.A FE 2.A FE 6. FE 2.A FE XXX XXX XXX XXX XXX XXX XXX XXX XX

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 **NONE**

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 End Depository Balances

	_	141011111	Life Depository					
1	2	3	4	5		lance at End of Eac		9
						uring Current Quart		
			Amount of	Amount of	6	7	8	
			Interest Received					
		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					2,165,044	4,300,397	6,239,591	XXX.
PNC Bank Pittsburgh, PA					(37,055)	(343,525)	36,812	XXX.
Wells Fargo Winston Salem, NC								xxx.
019998. 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	2,189,769	4,017,072	6,333,639	XXX
0299998. Deposits in depositories that do not	7000	7000		•	2,100,100	1,011,012	0,000,000	7000
exceed the allowable limit in any one depository (See								
instructions) - Suspended Depositories	xxx	XXX						xxx
0299999. Totals - Suspended Depositories	XXX	XXX	0	0	0	0	0	XXX
				0	•	ŭ		
0399999. Total Cash on Deposit	XXX	XXX	0		2,189,769	4,017,072	6,333,639	XXX
0499999. Cash in Company's Office	XXX	XXX	XXX	XXX				XXX
	·····							
0599999. Total - Cash	XXX	XXX	0	0	2,189,769	4,017,072	6,333,639	XXX

SCHEDULE E - PART 2 - CASH EQUIVALENTS

Show Investments Owned End of Current Quarter

			vned End of Current					
1	2	3	4	5	6	7 Book/Adjusted	8 Amount of Interest	9 Amount Received
CUSIP	Description	Code	Date Acquired	Rate of Interest	Maturity Date	Carrying Value	Due and Accrued	During Year
0109999999.	Total - U.S. Government Bonds					0	0	0
0309999999.	Total - All Other Government Bonds					0	0	0
0509999999.	Total - U.S. States, Territories and Possessions Bonds					0	0	0
	Total - U.S. Political Subdivisions Bonds					0	0	0
0909999999.	Total - U.S. Special Revenues Bonds					0	0	0
	KEURIG DR PEPPER INC COMMERCIAL PAPER		03/24/2023	0.000	04/04/2023	999,583	0	1,111
	Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated) - Issuer Obligations					999,583	0	1,111
	Total - Industrial and Miscellaneous (Unaffiliated) Bonds					999,583	0	1,111
	Total - Hybrid Securities					0	0	0
	Total - Parent, Subsidiaries and Affiliates Bonds					0	0	0
	Subtotal - Unaffiliated Bank Loans					0	0	0
	Total - Issuer Obligations					999,583	0	1,111
	Total - Residential Mortgage-Backed Securities					0	0	0
	Total - Commercial Mortgage-Backed Securities					0	0	0
	Total - Other Loan-Backed and Structured Securities					0	0	0
	Total - SVO Identified Funds					0	0	0
	Total - Affiliated Bank Loans					0	0	0
2470000000	Total - Unaffiliated Bank Loans					0	0	0
2509999999.	Total Bonds					999,583	0	1,111
2509999999. 09248U-71-8	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023	0.000		7,437,024	0	48,811
2509999999. 09248U-71-8	Total Bonds		03/02/2023	0.000		,.	0 0	
2509999999. 09248U-71-8	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023	0.000		7,437,024	0 0 0	48,811
2509999999. 09248U-71-8	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023	0.000		7,437,024	0 0 0	48,811
2509999999. 09248U-71-8	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0 0 0	48,811
2509999999. 09248U-71-8 8209999999.	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0 0 0	48,811
2509999999. 09248U-71-8 8209999999.	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999. 09248U-71-8 8209999999.	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023			7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds Blackrock Liquidity fund-exempt money ma		03/02/2023	0.000		7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0 0 0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0	48,811
2509999999 09248U-71-8 82099999999	Total Bonds BLACKROCK LIQUIDITY FUND-EXEMPT MONEY MA		03/02/2023			7,437,024	0	48,811