



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

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2023
OF THE CONDITION AND AFFAIRS OF THE

MANHATTAN NATIONAL LIFE INSURANCE COMPANY

NAIC Group Code 0435 (Current) 0435 (Prior) NAIC Company Code 67083 Employer's ID Number 45-0252531
of Ohio State of Domicile or Port of Entry OH

Organized under the Laws of Ohio, State of Domicile or Port of Entry OH

Country of Domicile United States of America

Licensed as business type: Life, Accident and Health Fraternal Benefit Societies

Incorporated/Organized 12/20/1956 Commenced Business 01/04/1957
Statutory Home Office 191 Rosa Parks Street Cincinnati, OH, US 45202

(Street and Number) (City or Town, State, County and Zip Code)

Main Administrative Office 191 Rosa Parks Street
(Street and Number)
Cincinnati, OH, US 45202 , 513-361-9000

(City or Town, State, Country and Zip Code) (Area Code) (Telephone Number)

Mail Address Post Office Box 5420, Cincinnati, OH, US 45201
(Street and Number or P.O. Box) (City or Town, State, Country and Zip Code)

Primary Location of Books and Records _____ 191 Rosa Parks Street _____
(Street and Number)
Cincinnati, OH, US 45202 _____, 513-361-9000
(City or Town, State, Country and Zip Code) (Area Code) (Telephone Number)

Internet Website Address www.massmutualascend.com

Statutory Statement Contact Robert Mayhew Earle II, 513-361-9077
(Name) (Area Code) (Telephone Number)
rearle@mascend.com, 513-345-9484
(E-mail Address) (FAX Number)

OFFICERS

President Mark Francis Muething Treasurer Brian Patrick Sponaugle
Secretary John Paul Gruber Appointed Actuary Dominic Joseph Moster

OTHER

Donna Marie Carrelli _____ Michael Harrison Haney #

DIRECTORS OR TRUSTEES

Elizabeth Ward Chicares
Roger William Crandall
Mark Francis Muething
Arthur William Wallace III
Susan Marie Cicco
Paul Anthony LaPiana
Michael James O'Connor

State of Ohio SS: _____
County of Hamilton _____

The officers of this reporting entity being duly sworn, each depose and say that they are the described officers of said reporting entity, and that on the reporting period stated above, all of the herein described assets were the absolute property of the said reporting entity, free and clear from any liens or claims thereon, except as herein stated, and that this statement, together with related exhibits, schedules and explanations therein contained, annexed or referred to, is a full and true statement of all the assets and liabilities and of the condition and affairs of the said reporting entity as of the reporting period stated above, and of its income and deductions therefrom for the period ended, and have been completed in accordance with the NAIC Annual Statement Instructions and Accounting Practices and Procedures manual except to the extent that: (1) state law may differ; or, (2) that state rules or regulations require differences in reporting not related to accounting practices and procedures, according to the best of their information, knowledge and belief, respectively. Furthermore, the scope of this attestation by the described officers also includes the related corresponding electronic filing with the NAIC, when required, that is an exact copy (except for formatting differences due to electronic filing) of the enclosed statement. The electronic filing may be requested by various regulators in lieu of or in addition to the enclosed statement.

Mark Francis Muething
President

John Paul Gruber
Secretary

Brian Patrick Sponaugle
Treasurer

Subscribed and sworn to before me this _____ day of _____ November 2023

a. Is this an original filing? Yes [] No []
b. If no,
 1. State the amendment number.....
 2. Date filed
 3. Number of pages attached.....

OFFICERS AND DIRECTORS WHO DID NOT OCCUPY THE INDICATED POSITION IN THE PREVIOUS ANNUAL STATEMENT

ASSETS

	Current Statement Date			4 December 31 Prior Year Net Admitted Assets
	1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	
1. Bonds	117,977,258		117,977,258	111,899,872
2. Stocks:				0
2.1 Preferred stocks			0	0
2.2 Common stocks			0	0
3. Mortgage loans on real estate:				0
3.1 First liens			0	0
3.2 Other than first liens.....			0	0
4. Real estate:				0
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 (\$ 2,139,996), cash equivalents (\$ 3,556,627) and short-term investments (\$ 0)	5,696,623		5,696,623	14,534,897
6. Contract loans (including \$ premium notes)	4,218,259		4,218,259	4,408,517
7. Derivatives			0	0
8. Other invested assets			0	0
9. Receivables for securities			0	0
10. Securities lending reinvested collateral assets			0	0
11. Aggregate write-ins for invested assets			0	0
12. Subtotals, cash and invested assets (Lines 1 to 11)	127,892,140	0	127,892,140	130,843,286
13. Title plants less \$ charged off (for Title insurers only)			0	
14. Investment income due and accrued	1,033,356	6,050	1,027,306	1,420,376
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	115,460	8,986	106,474	164,846
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	3,081,464	16,180	3,065,284	3,174,410
15.3 Accrued retrospective premiums (\$) and contracts subject to redetermination (\$)			0	0
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	415,098		415,098	335,104
16.2 Funds held by or deposited with reinsured companies			0	0
16.3 Other amounts receivable under reinsurance contracts			0	0
17. Amounts receivable relating to uninsured plans			0	0
18.1 Current federal and foreign income tax recoverable and interest thereon	143,722		143,722	0
18.2 Net deferred tax asset			0	0
19. Guaranty funds receivable or on deposit	94,744		94,744	106,455
20. Electronic data processing equipment and software			0	0
21. Furniture and equipment, including health care delivery assets (\$)			0	0
22. Net adjustment in assets and liabilities due to foreign exchange rates			0	0
23. Receivables from parent, subsidiaries and affiliates			0	90,170
24. Health care (\$) and other amounts receivable			0	0
25. Aggregate write-ins for other than invested assets	36,464		36,464	784
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	132,812,448	31,216	132,781,232	136,135,431
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts			0	0
28. Total (Lines 26 and 27)	132,812,448	31,216	132,781,232	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
2501. Miscellaneous receivable	36,464		36,464	784
2502.				
2503.				
2598. Summary of remaining write-ins for Line 25 from overflow page	0	0	0	0
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	36,464	0	36,464	784

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
LIABILITIES, SURPLUS AND OTHER FUNDS

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$ 57,281,994 less \$ included in Line 6.3 (including \$ Modco Reserve)	57,281,994	58,721,823
2. Aggregate reserve for accident and health contracts (including \$ Modco Reserve)	65,140	64,464
3. Liability for deposit-type contracts (including \$ Modco Reserve)	2,542,406	2,748,937
4. Contract claims:		
4.1 Life	3,922,892	4,490,322
4.2 Accident and health		
5. Policyholders' dividends/refunds to members \$ and coupons \$ due and unpaid		
6. Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated amounts:		
6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$ Modco)	9,000	9,000
6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$ Modco)		
6.3 Coupons and similar benefits (including \$ Modco)		
7. Amount provisionally held for deferred dividend policies not included in Line 6		
8. Premiums and annuity considerations for life and accident and health contracts received in advance less \$ discount; including \$ accident and health premiums	56,159	72,465
9. Contract liabilities not included elsewhere:		
9.1 Surrender values on canceled contracts		
9.2 Provision for experience rating refunds, including the liability of \$ accident and health experience rating refunds of which \$ 0 is for medical loss ratio rebate per the Public Health Service Act		
9.3 Other amounts payable on reinsurance, including \$ 0 assumed and \$ 45,779 ceded	45,779	60,098
9.4 Interest Maintenance Reserve	2,663,988	2,940,884
10. Commissions to agents due or accrued-life and annuity contracts \$ 0, accident and health \$ and deposit-type contract funds \$		0
11. Commissions and expense allowances payable on reinsurance assumed	81,822	81,824
12. General expenses due or accrued		
13. Transfers to Separate Accounts due or accrued (net) (including \$ 0 accrued for expense allowances recognized in reserves, net of reinsured allowances)		0
14. Taxes, licenses and fees due or accrued, excluding federal income taxes	382,796	401,431
15.1 Current federal and foreign income taxes, including \$ on realized capital gains (losses)	92,976	
15.2 Net deferred tax liability		0
16. Unearned investment income	31,165	38,775
17. Amounts withheld or retained by reporting entity as agent or trustee	47,555	7,666
18. Amounts held for agents' account, including \$ 463,519 agents' credit balances	463,519	429,926
19. Remittances and items not allocated	1,472,668	1,246,479
20. Net adjustment in assets and liabilities due to foreign exchange rates		
21. Liability for benefits for employees and agents if not included above		
22. Borrowed money \$ and interest thereon \$		
23. Dividends to stockholders declared and unpaid		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve	683,822	891,636
24.02 Reinsurance in unauthorized and certified (\$) companies		
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		0
24.04 Payable to parent, subsidiaries and affiliates	103,634	0
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance	46,409,664	47,323,547
24.08 Derivatives	0	
24.09 Payable for securities	104,228	0
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	481,952	401,184
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	116,850,183	120,023,437
27. From Separate Accounts Statement		0
28. Total liabilities (Lines 26 and 27)	116,850,183	120,023,437
29. Common capital stock	2,500,000	2,500,000
30. Preferred capital stock		0
31. Aggregate write-ins for other than special surplus funds		0
32. Surplus notes		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. Unassigned funds (surplus)	(119,036,838)	(118,855,893)
36. Less treasury stock, at cost:		
36.1 shares common (value included in Line 29 \$)	0	
36.2 shares preferred (value included in Line 30 \$)	0	
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ in Separate Accounts Statement)	13,431,049	13,611,994
38. Totals of Lines 29, 30 and 37	15,931,049	16,111,994
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	132,781,232	136,135,431
DETAILS OF WRITE-INS		
2501. Unclaimed funds	481,952	401,184
2502.		
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)	481,952	401,184
3101.		
3102.		
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.		
3498. Summary of remaining write-ins for Line 34 from overflow page	0	0
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)	0	0

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
SUMMARY OF OPERATIONS

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	3,564,178	3,549,806	4,835,795
2. Considerations for supplementary contracts with life contingencies			
3. Net investment income	2,621,349	2,511,730	3,441,232
4. Amortization of Interest Maintenance Reserve (IMR)	221,596	258,562	344,757
5. Separate Accounts net gain from operations excluding unrealized gains or losses			
6. Commissions and expense allowances on reinsurance ceded	351,153	411,179	534,882
7. Reserve adjustments on reinsurance ceded			
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts			
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	0	0	0
9. Totals (Lines 1 to 8.3)	6,758,276	6,731,277	9,156,666
10. Death benefits	4,702,628	6,575,361	8,095,271
11. Matured endowments (excluding guaranteed annual pure endowments)	4,235		146
12. Annuity benefits	569,793	544,042	668,120
13. Disability benefits and benefits under accident and health contracts			0
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	1,137,958	2,094,582	2,514,608
16. Group conversions			0
17. Interest and adjustments on contract or deposit-type contract funds	25,741	16,636	23,268
18. Payments on supplementary contracts with life contingencies			0
19. Increase in aggregate reserves for life and accident and health contracts	(1,439,153)	(3,676,465)	(3,978,589)
20. Totals (Lines 10 to 19)	5,001,202	5,554,156	7,322,824
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	154,845	164,101	214,151
22. Commissions and expense allowances on reinsurance assumed			0
23. General insurance expenses and fraternal expenses	901,940	1,085,274	1,315,007
24. Insurance taxes, licenses and fees, excluding federal income taxes	265,336	291,447	474,728
25. Increase in loading on deferred and uncollected premiums	(1,957)	(220)	(183)
26. Net transfers to or (from) Separate Accounts net of reinsurance			
27. Aggregate write-ins for deductions	548,394	376,837	506,212
28. Totals (Lines 20 to 27)	6,869,760	7,471,595	9,832,739
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	(111,484)	(740,318)	(676,073)
30. Dividends to policyholders and refunds to members	16,382	16,925	22,697
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(127,866)	(757,243)	(698,770)
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	(185,810)	(164,082)	(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)	57,944	(593,161)	(365,412)
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ (121,559) (excluding taxes of \$ (14,700) transferred to the IMR)	(484,809)	(9,123)	(9,083)
35. Net income (Line 33 plus Line 34)	(426,865)	(602,284)	(374,495)
CAPITAL AND SURPLUS ACCOUNT			
36. Capital and surplus, December 31, prior year	16,111,994	13,092,658	13,092,658
37. Net income (Line 35)	(426,865)	(602,284)	(374,495)
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ 0		36,987	36,988
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax	(1)	79,919	(2,542,614)
41. Change in nonadmitted assets	38,108	(81,528)	1,243,604
42. Change in liability for reinsurance in unauthorized and certified companies			
43. Change in reserve on account of change in valuation basis, (increase) or decrease			
44. Change in asset valuation reserve	207,813	(344,954)	(344,147)
45. Change in treasury stock			
46. Surplus (contributed to) withdrawn from Separate Accounts during period			
47. Other changes in surplus in Separate Accounts Statement			
48. Change in surplus notes			0
49. Cumulative effect of changes in accounting principles			
50. Capital changes:			
50.1 Paid in			0
50.2 Transferred from surplus (Stock Dividend)			
50.3 Transferred to surplus			
51. Surplus adjustment:			
51.1 Paid in		0	5,000,000
51.2 Transferred to capital (Stock Dividend)			
51.3 Transferred from capital			
51.4 Change in surplus as a result of reinsurance			0
52. Dividends to stockholders			0
53. Aggregate write-ins for gains and losses in surplus		0	0
54. Net change in capital and surplus for the year (Lines 37 through 53)	(180,945)	(911,860)	3,019,336
55. Capital and surplus, as of statement date (Lines 36 + 54)	15,931,049	12,180,798	16,111,994
DETAILS OF WRITE-INS			
08.301.			
08.302.			
08.303.			
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	0	0	0
2701. Reinsurance administration agreement expense	548,394	376,837	506,212
2702.			
2703.			
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	548,394	376,837	506,212
5301.			
5302.			
5303.			
5398. Summary of remaining write-ins for Line 53 from overflow page	0	0	0
5399. Totals (Lines 5301 through 5303 plus 5398) (Line 53 above)	0	0	0

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
CASH FLOW

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
Cash from Operations			
1. Premiums collected net of reinsurance	3,725,340	3,735,911	5,031,047
2. Net investment income	2,781,679	2,712,678	3,084,160
3. Miscellaneous income	351,153	411,179	534,882
4. Total (Lines 1 to 3)	6,858,172	6,859,768	8,650,089
5. Benefit and loss related payments	7,076,356	9,458,018	11,773,342
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	0	0	0
7. Commissions, expenses paid and aggregate write-ins for deductions	1,877,441	1,923,699	2,413,036
8. Dividends paid to policyholders	4,293	4,467	6,101
9. Federal and foreign income taxes paid (recovered) net of \$ (136,259) tax on capital gains (losses)	(85,370)	(564,613)	(562,866)
10. Total (Lines 5 through 9)	8,872,720	10,821,571	13,629,613
11. Net cash from operations (Line 4 minus Line 10)	(2,014,548)	(3,961,803)	(4,979,524)
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	10,339,944	7,932,055	8,831,270
12.2 Stocks	0	0	0
12.3 Mortgage loans	0	0	0
12.4 Real estate	0	0	0
12.5 Other invested assets	0	0	0
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	0	0	(36)
12.7 Miscellaneous proceeds	0	0	0
12.8 Total investment proceeds (Lines 12.1 to 12.7)	10,339,944	7,932,055	8,831,234
13. Cost of investments acquired (long-term only):			
13.1 Bonds	16,875,068	14,016,959	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	(138,516)	4,273,458	1,002,961
13.7 Total investments acquired (Lines 13.1 to 13.6)	16,736,552	18,290,417	15,019,919
14. Net increase (or decrease) in contract loans and premium notes	(190,258)	(281,575)	(320,109)
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(6,206,350)	(10,076,787)	(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	(244,362)	1,335,391	1,275,548
16.5 Dividends to stockholders	0	0	0
16.6 Other cash provided (applied)	(373,014)	(3,696,940)	(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)	(617,376)	(2,361,549)	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)	(8,838,274)	(16,400,139)	(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)	5,696,623	6,575,781	14,534,897

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

20.0001. Bond conversions and refinancing		238,116	238,116
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EXHIBIT 1**DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS**

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Industrial life			0
2. Ordinary life insurance	8,215,822	8,540,720	11,470,490
3. Ordinary individual annuities	79,292	116,696	125,989
4. Credit life (group and individual)			0
5. Group life insurance			0
6. Group annuities			0
7. A & H - group			0
8. A & H - credit (group and individual)			0
9. A & H - other	49,397	53,419	69,530
10. Aggregate of all other lines of business	0	0	0
11. Subtotal (Lines 1 through 10)	8,344,511	8,710,835	11,666,009
12. Fraternal (Fraternal Benefit Societies Only)			0
13. Subtotal (Lines 11 through 12)	8,344,511	8,710,835	11,666,009
14. Deposit-type contracts	0	0	0
15. Total (Lines 13 and 14)	8,344,511	8,710,835	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

NOTES TO FINANCIAL STATEMENTS

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	September 30, 2023	December 31, 2022
(1) State basis	\$ (426,865)	\$ (374,495)
(2) State prescribed practices that increase/(decrease) NAIC SAP	-	-
(3) State permitted practices that increase/(decrease) NAIC SAP	-	-
(4) NAIC SAP	<u>\$ (426,865)</u>	<u>\$ (374,495)</u>
Surplus		
(5) State basis	\$ 15,931,049	\$ 16,111,994
(6) State prescribed practices that increase/(decrease) NAIC SAP	-	-
(7) State permitted practices that increase/(decrease) NAIC SAP	-	-
(8) NAIC SAP	<u>\$ 15,931,049</u>	<u>\$ 16,111,994</u>

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:

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flows	OTTI Charge Recognized in Income Statement	Amortized Cost After OTTI	Fair Value at Time of OTTI	Date 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	-
2. 12 months or longer	\$126,466
b. The aggregate related fair value of securities with unrealized losses:	
1. Less than 12 months	-
2. 12 months or longer	\$895,696

- (5) Based on cash flow projections received from independent sources (which reflect loan to collateral values, subordination, vintage and geographic concentration), implied cash flows inherent in security ratings and analysis of historical payment data, management believes that the Company will recover its cost basis in all securities with unrealized losses at September 30, 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.

NOTES TO FINANCIAL STATEMENTS

- 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. MMALIC is wholly-owned subsidiary of Glidepath Holdings, Inc., a financial services holding company wholly-owned by Massachusetts Mutual Life Insurance Company. See Schedule Y, Part 1, Organizational Chart.

During 2023 the Company received federal income tax payments in cash from MMALIC:

06/14/2023	\$	74,571
09/19/2023	\$	10,800

- D. The Company reported \$103,634 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.

NOTES TO FINANCIAL STATEMENTS

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 \$51,095,196 as of September 30, 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 \$26,763 for the nine months ended September 30, 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

A.

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

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

- (4) Inputs and Techniques Used in Estimating Fair Value

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

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

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

NOTES TO FINANCIAL STATEMENTS

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	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
	Fair Value						
Financial Assets:							
Bonds:							
U.S. government and agencies	\$ 1,594,206	\$ 1,706,144	\$ -	\$ 1,594,206	\$ -	\$ -	\$ -
States, territories and possessions	3,255,490	2,799,781	-	3,255,490	-	-	-
Special revenue	9,934,896	10,067,348	-	9,934,896	-	-	-
Industrial and miscellaneous	96,410,301	103,403,985	-	96,410,301	-	-	-
Total bonds	\$ 111,194,893	\$ 117,977,258	\$ -	\$ 111,194,893	\$ -	\$ -	\$ -
Cash and cash equivalents	5,696,623	5,696,623	5,696,623	-	-	-	-
Policy loans	4,218,259	4,218,259	-	-	4,218,259	-	-
Total financial assets	\$ 121,109,775	\$ 127,892,140	\$ 5,696,623	\$ 111,194,893	\$ 4,218,259	\$ -	\$ -

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.

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
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? Yes [] No [X]

2.2 If yes, date of change: _____

3.1 Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer? Yes [X] No []
 If yes, complete Schedule Y, Parts 1 and 1A.

3.2 Have there been any substantial changes in the organizational chart since the prior quarter end? Yes [] No [X]

3.3 If the response to 3.2 is yes, provide a brief description of those changes.

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) code issued by the SEC for the entity/group. _____

4.1 Has the reporting entity been a party to a merger or consolidation during the period covered by this statement? Yes [] No [X]

4.2 If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation.

1 Name of Entity	2 NAIC Company Code	3 State of Domicile

5. If the reporting entity is subject to a management agreement, including third-party administrator(s), managing general agent(s), attorney-in-fact, or similar agreement, have there been any significant changes regarding the terms of the agreement or principals involved? Yes [] No [X] N/A []
 If yes, attach an explanation.

6.1 State as of what date the latest financial examination of the reporting entity was made or is being made. 12/31/2021

6.2 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. 12/31/2016

6.3 State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date). 01/11/2018

6.4 By what department or departments?
 Ohio Department of Insurance

6.5 Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments? Yes [] No [] N/A [X]

6.6 Have all of the recommendations within the latest financial examination report been complied with? Yes [] No [] N/A [X]

7.1 Has this reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period? Yes [] No [X]

7.2 If yes, give full information:

8.1 Is the company a subsidiary of a bank holding company regulated by the Federal Reserve Board? Yes [] No [X]

8.2 If response to 8.1 is yes, please identify the name of the bank holding company.

8.3 Is the company affiliated with one or more banks, thrifts or securities firms? Yes [X] No []

8.4 If response to 8.3 is yes, please provide below the names and location (city and state of the main office) of any affiliates regulated by a federal regulatory services agency [i.e. the Federal Reserve Board (FRB), the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Securities Exchange Commission (SEC)] and identify the affiliate's primary federal regulator.

1 Affiliate Name	2 Location (City, State)	3 FRB	4 OCC	5 FDIC	6 SEC
Barings LLC	Charlotte, NC	NO.....	NO.....	NO.....	YES.....
Baring International Investment Limited	London, UK	NO.....	NO.....	NO.....	YES.....
Barings Securities LLC	Charlotte, NC	NO.....	NO.....	NO.....	YES.....
MM Ascend Life Investor Services LLC	Cincinnati, OH	NO.....	NO.....	NO.....	YES.....
MML Distributors LLC	Springfield, MA	NO.....	NO.....	NO.....	YES.....
MML Investment Advisors LLC	Springfield, MA	NO.....	NO.....	NO.....	YES.....
MML Investors Services LLC	Springfield, MA	NO.....	NO.....	NO.....	YES.....
MML Strategic Distributors LLC	Springfield, MA	NO.....	NO.....	NO.....	YES.....
The MassMutual Trust Company OCC	Enfield, CT	NO.....	YES.....	NO.....	NO.....
Flourish Financial LLC	New York, NY	NO.....	NO.....	NO.....	YES.....

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
GENERAL INTERROGATORIES

9.1 Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions) of the reporting entity subject to a code of ethics, which includes the following standards? Yes [] No []

- (a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;
- (b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting entity;
- (c) Compliance with applicable governmental laws, rules and regulations;
- (d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and
- (e) Accountability for adherence to the code.

9.11 If the response to 9.1 is No, please explain:
.....

9.2 Has the code of ethics for senior managers been amended? Yes [] No []

9.21 If the response to 9.2 is Yes, provide information related to amendment(s).
.....

9.3 Have any provisions of the code of ethics been waived for any of the specified officers? Yes [] No []

9.31 If the response to 9.3 is Yes, provide the nature of any waiver(s).
.....

FINANCIAL

10.1 Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement? Yes [] No [X]
10.2 If yes, indicate any amounts receivable from parent included in the Page 2 amount: \$.....

INVESTMENT

11.1 Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or otherwise made available for use by another person? (Exclude securities under securities lending agreements.) Yes [] No [X]
11.2 If yes, give full and complete information relating thereto:

12. Amount of real estate and mortgages held in other invested assets in Schedule BA: \$.....
13. Amount of real estate and mortgages held in short-term investments: \$.....
14.1 Does the reporting entity have any investments in parent, subsidiaries and affiliates? Yes [] No [X]
14.2 If yes, please complete the following:

	1 Prior Year-End Book/Adjusted Carrying Value	2 Current Quarter Book/Adjusted Carrying Value
14.21 Bonds	\$ 0	\$
14.22 Preferred Stock	\$ 0	\$
14.23 Common Stock	\$ 0	\$
14.24 Short-Term Investments	\$ 0	\$
14.25 Mortgage Loans on Real Estate	\$ 0	\$
14.26 All Other	\$ 0	\$
14.27 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	\$ 0	\$

15.1 Has the reporting entity entered into any hedging transactions reported on Schedule DB? Yes [] No [X]
15.2 If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? Yes [] No [] N/A [X]
If no, attach a description with this statement.

16. For the reporting entity's security lending program, state the amount of the following as of the current statement date:

16.1 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2	\$	0
16.2 Total book/adjusted carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2	\$	0
16.3 Total payable for securities lending reported on the liability page.	\$	0

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
GENERAL INTERROGATORIES

17. Excluding items in Schedule E - Part 3 - Special Deposits, real estate, mortgage loans and investments held physically in the reporting entity's offices, vaults or safety deposit boxes, were all stocks, bonds and other securities, owned throughout the current year held pursuant to a custodial agreement with a qualified bank or trust company in accordance with Section 1, III - General Examination Considerations, F.
 Outsourcing of Critical Functions, Custodial or Safekeeping Agreements of the NAIC Financial Condition Examiners Handbook? Yes [] No []

17.1 For all agreements that comply with the requirements of the NAIC Financial Condition Examiners Handbook, complete the following:

1 Name of Custodian(s)	2 Custodian Address
Bank of New York Mellon	1 Wall Street, New York, NY 10286

17.2 For all agreements that do not comply with the requirements of the NAIC Financial Condition Examiners Handbook, provide the name, location and a complete explanation:

1 Name(s)	2 Location(s)	3 Complete Explanation(s)

17.3 Have there been any changes, including name changes, in the custodian(s) identified in 17.1 during the current quarter? Yes [] No []

17.4 If yes, give full information relating thereto:

1 Old Custodian	2 New Custodian	3 Date of Change	4 Reason

17.5 Investment management – Identify all investment advisors, investment managers, broker/dealers, including individuals that have the authority to make investment decisions on behalf of the reporting entity. For assets that are managed internally by employees of the reporting entity, note as such. ["...that have access to the investment accounts"; "...handle securities"]

1 Name of Firm or Individual	2 Affiliation
Barings LLC	A.....

17.5097 For those firms/individuals listed in the table for Question 17.5, do any firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") manage more than 10% of the reporting entity's invested assets? Yes [] No []

17.5098 For firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") listed in the table for Question 17.5, does the total assets under management aggregate to more than 50% of the reporting entity's invested assets? Yes [] No []

17.6 For those firms or individuals listed in the table for 17.5 with an affiliation code of "A" (affiliated) or "U" (unaffiliated), provide the information for the table below.

1 Central Registration Depository Number	2 Name of Firm or Individual	3 Legal Entity Identifier (LEI)	4 Registered With	5 Investment Management Agreement (IMA) Filed
106006	Barings LLC	549300G36F1EZS4MQM37	SEC	DS.....

18.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed? Yes [] No []

18.2 If no, list exceptions:
.....

19. By self-designating 5GI securities, the reporting entity is certifying the following elements for each self-designated 5GI security:

- Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available.
- Issuer or obligor is current on all contracted interest and principal payments.
- The insurer has an actual expectation of ultimate payment of all contracted interest and principal.

Has the reporting entity self-designated 5GI securities? Yes [] No []

20. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security:

- The security was purchased prior to January 1, 2018.
- The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
- The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insurer and available for examination by state insurance regulators.
- The reporting entity is not permitted to share this credit rating of the PL security with the SVO.

Has the reporting entity self-designated PLGI securities? Yes [] No []

21. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund:

- The shares were purchased prior to January 1, 2019.
- The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
- The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior to January 1, 2019.
- The fund only or predominantly holds bonds in its portfolio.
- The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO.
- The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed.

Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? Yes [] No []

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
GENERAL INTERROGATORIES

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

Life and Accident Health Companies/Fraternal Benefit Societies:

1	Amount
1.1 Long-Term Mortgages In Good Standing	
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	9.071 %
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 []

Fraternal 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 []
- If no, explain:
.....
- Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus? Yes [] No []
- 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
.....

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE S - CEDED REINSURANCE

Showing All New Reinsurance Treaties - Current Year to Date

None

10

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS

Current Year To Date - Allocated by States and Territories

States, Etc.	Active Status (a)	Life Contracts		Direct Business Only			Total Columns 2 Through 5	Deposit-Type Contracts
		2	3	4	5			
		Life Insurance Premiums	Annuity Considerations	Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	Other Considerations			
1. Alabama	AL	34,204	0	0	0		34,204	
2. Alaska	AK	7,909	0	0	0		7,909	
3. Arizona	AZ	52,683	300	0	0		52,983	
4. Arkansas	AR	66,534	0	0	0		66,534	
5. California	CA	1,000,239	1,066	0	0		1,001,305	
6. Colorado	CO	103,912	0	0	0		103,912	
7. Connecticut	CT	65,848	0	0	0		65,848	
8. Delaware	DE	38,579	0	0	0		38,579	
9. District of Columbia	DC	5,430	0	0	0		5,430	
10. Florida	FL	483,333	361	43,768	0		527,462	
11. Georgia	GA	241,606	1,700	610	0		243,916	
12. Hawaii	HI	30,967	0	0	0		30,967	
13. Idaho	ID	19,427	0	0	0		19,427	
14. Illinois	IL	236,243	8,742	0	0		244,985	
15. Indiana	IN	267,568	1,895	306	0		269,769	
16. Iowa	IA	95,284	0	252	0		95,536	
17. Kansas	KS	111,852	4,629	0	0		116,480	
18. Kentucky	KY	81,704	0	0	0		81,704	
19. Louisiana	LA	152,722	0	0	0		152,722	
20. Maine	ME	55,081	0	0	0		55,081	
21. Maryland	MD	272,355	0	0	0		272,355	
22. Massachusetts	MA	191,282	0	0	0		191,282	
23. Michigan	MI	338,615	11,707	428	0		350,750	
24. Minnesota	MN	467,850	17,450	0	0		485,300	
25. Mississippi	MS	99,799	480	0	0		100,279	
26. Missouri	MO	244,748	7,621	303	0		252,672	
27. Montana	MT	7,945	0	0	0		7,945	
28. Nebraska	NE	44,829	0	0	0		44,829	
29. Nevada	NV	65,135	0	0	0		65,135	
30. New Hampshire	NH	41,237	0	0	0		41,237	
31. New Jersey	NJ	223,917	0	0	0		223,917	
32. New Mexico	NM	23,234	0	789	0		24,024	
33. New York	NY	48,445	0	0	0		48,445	
34. North Carolina	NC	185,472	300	0	0		185,772	
35. North Dakota	ND	62,873	0	0	0		62,873	
36. Ohio	OH	209,126	305	172	0		209,603	
37. Oklahoma	OK	65,165	0	0	0		65,165	
38. Oregon	OR	56,727	0	0	0		56,727	
39. Pennsylvania	PA	277,930	0	329	0		278,259	
40. Rhode Island	RI	8,641	0	0	0		8,641	
41. South Carolina	SC	135,261	270	0	0		135,531	
42. South Dakota	SD	11,626	0	0	0		11,626	
43. Tennessee	TN	201,710	0	545	0		202,255	
44. Texas	TX	513,914	450	269	0		514,633	
45. Utah	UT	34,911	142	0	0		35,053	
46. Vermont	VT	17,952	0	0	0		17,952	
47. Virginia	VA	183,252	0	0	0		183,252	
48. Washington	WA	71,332	0	0	0		71,332	
49. West Virginia	WV	32,567	0	0	0		32,567	
50. Wisconsin	WI	904,158	21,875	1,734	0		927,766	
51. Wyoming	WY	16,904	0	0	0		16,904	
52. American Samoa	AS	0	0	0	0		0	
53. Guam	GU	0	0	0	0		0	
54. Puerto Rico	PR	0	0	0	0		0	
55. U.S. Virgin Islands	VI	0	0	0	0		0	
56. Northern Mariana Islands	MP	0	0	0	0		0	
57. Canada	CAN	0	0	0	0		0	
58. Aggregate Other Aliens	OT	1,988	0	0	0		1,988	0
59. Subtotal	XXX	8,212,026	79,292	49,506	0		8,340,824	0
90. Reporting entity contributions for employee benefits plans	XXX						0	
91. Dividends or refunds applied to purchase paid-up additions and annuities	XXX						0	
92. Dividends or refunds applied to shorten endowment or premium paying period	XXX						0	
93. Premium or annuity considerations waived under disability or other contract provisions	XXX	164,849					164,849	
94. Aggregate or other amounts not allocable by State	XXX	0	0	0	0		0	0
95. Totals (Direct Business)	XXX	8,376,875	79,292	49,506	0		8,505,672	0
96. Plus Reinsurance Assumed	XXX						0	
97. Totals (All Business)	XXX	8,376,875	79,292	49,506	0		8,505,672	0
98. Less Reinsurance Ceded	XXX	4,706,364	35,681	45,449	0		4,787,495	
99. Totals (All Business) less Reinsurance Ceded	XXX	3,670,511	43,611	4,057	0		3,718,178	0
DETAILS OF WRITE-INS								
58001. Other Aliens	XXX	1,988					1,988	
58002.	XXX							
58003.	XXX							
58998. Summary of remaining write-ins for Line 58 from overflow page	XXX	0	0	0	0		0	0
58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)	XXX	1,988	0	0	0		1,988	0
9401.	XXX							
9402.	XXX							
9403.	XXX							
9498. Summary of remaining write-ins for Line 94 from overflow page	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:

1. L - Licensed or Chartered - Licensed insurance carrier or domiciled RRG 50 4. Q - Qualified - Qualified or accredited reinsurer 0
 2. R - Registered - Non-domiciled RRGs 0 5. N - None of the above - Not allowed to write business in the state 7
 3. E - Eligible - Reporting entities eligible or approved to write surplus lines in the state 0

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

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

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Mezzanine Investor III, LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Mezzanine Investor II, LLC	04-1590850		Delaware
MML Mezzanine Investor III, 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
ITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV, GP, LLC	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures US IV, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands

*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 – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Counterpointe Sustainable Advisors LLC	None		Delaware
CSA Intermediate Holdco LLC	None		Delaware
Counterpointe Trust Services LLC	None		Delaware
CP PACE LLC	None		Delaware
CSA Employee Services Company LLC	None		Delaware
Counterpointe Sustainable Real Estate II LLC	None		Delaware
Counterpointe Energy Solutions II LLC	None		Delaware
Counterpointe Energy Solutions (CA) II LLC	27-0105644		Delaware
Counterpointe Energy Services LLC	None		Delaware
JFIN Parent LLC	None		Delaware
Jefferies Finance LLC	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
JFIN Fund III LLC	None		Delaware
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 2 C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund II C SPE LLC	None		Delaware
JCP Direct Lending CLO 2023-1 LLC	None		Delaware
JCP Direct Lending CLO 2023 Ltd.	None		Jersey Channel Islands
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

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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.	None		Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IV LLC	None		Cayman Islands
JFIN Revolver Fund, L.P.	None		Delaware
JFIN Revolver Funding 2021 Ltd.	None		Delaware
JFIN Revolver Funding 2021-III Ltd.	None		Delaware
JFIN Revolver Funding 2021-IV Ltd.	None		Delaware
JFIN Revolver Funding 2022-I Ltd.	None		Bermuda
JFIN Revolver SPE1 2022 LLC	None		Delaware
JFIN Revolver SPE3 2022 LLC	None		Delaware
JFIN Revolver SPE4 2022 LLC	None		Delaware
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

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*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 – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

		<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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		31-1021738	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		45-0252531	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
MM Direct Private Investment Holding LLC		None		Delaware
MM Direct Private Investments UK Limited		None		England & Wales
DPI-ACRES Capital LLC		None		Delaware
DPI-ARES Mortgage Lending LLC		None		Delaware
MM Investment Holding		None		Cayman Islands
MMIH Bond Holdings LLC		None		Delaware
MassMutual Asset Finance LLC*		26-0073611		Delaware
MMAF Equipment Finance LLC 2017-B		32-0546197		Delaware
MMAF Equipment Finance LLC 2018-A		82-5335801		Delaware
MMAF Equipment Finance LLC 2019-A		83-3722640		Delaware
MMAF Equipment Finance LLC 2019-B		None		Delaware
MMAF Equipment Finance LLC 2020-A		None		Delaware
MMAF Equipment Finance LLC 2020-B		None		Delaware
MMAF Equipment Finance LLC 2021-A		None		Delaware
MMAF Equipment Finance LLC 2022-A		None		Delaware
MMAF Equipment Finance LLC 2022-B		None		Delaware
MMAF Equipment Finance LLC 2023-A		None		Delaware
Rozier LLC		None		Delaware
MML Management Corporation		04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.		04-3548444		Massachusetts
MassMutual Holding MSC, Inc.		04-3341767		Massachusetts
MML CM LLC		None		Delaware
Blueprint Income LLC		None		New York
Flourish Digital Assets LLC		None		Delaware
Flourish Financial LLC		None		Delaware
Flourish Holding Company LLC		None		Delaware
Flourish Insurance Agency LLC		None		Delaware
Flourish Technologies LLC		None		Delaware

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MassMutual Ventures US IV GP	04-1590850		Delaware
MassMutual Venture US IV LP	04-1590850		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
Teaktree Acquisition, LLC	None		Delaware
Haven Life Insurance Agency, LLC	46-2252944		Delaware
GASL Holdings LLC	None		Delaware
Barings Asset-Based Income Fund (US) LP	None		Delaware
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
Intermodal Holding II LLC	None		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
MMV UK/SEA Limited	None		England & Wales
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
MM Catalyst Fund LLC	None		Delaware

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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
MML Investors Services, LLC	04-1590850		Massachusetts
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLSI 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
Barings Australia Property Partners Holdings Pty Ltd	98-0457456		Australia
Barings Australia Asset Management Pty Ltd	None		Australia
Barings Australia Property Partners Pty Ltd	None		Australia
Barings Australia Structured Finance Holdings Pty Ltd	None		Australia
Barings Australia Structured Finance Pty Ltd	None		Australia
Gryphon Capital Partners Pty Ltd	None		Australia
Gryphon Capital Management Pty Ltd	None		Australia
Gryphon Capital Investments Pty Ltd	None		Australia
Barings Finance LLC	80-0875475		Delaware

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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 Switzerland Sàrl	None		Switzerland
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
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.l.	None		Luxembourg
Barings European Core Property Fund GP S.à.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
Remington L & W Holdings LLC	81-4065378		Delaware
Aland Royalty GP, LLC	None		Delaware
Alaska Future Fund GP, LLC	None		Delaware
BAI Funds SLP, LLC	None		Delaware
BAI GP, LLC	None		Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None		Delaware
Barings CMS Fund GP, LLC	None		Delaware
Barings Infiniti Fund Management LLC	None		Delaware
Barings Hotel Opportunity Venture I GP, LLC	None		Delaware

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Baring 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 Global Energy Infrastructure Advisors, LLC	None		Delaware
Barings Centre Street CLO Equity Partnership GP, LLC	None		Delaware
Barings Centre Street CLO Equity Partnership LP	None		Delaware
Barings Global Real Assets Fund GP, LLC	None		Delaware
Barings GPSF LLC	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund II Management, LLC	None		Delaware
Barings North American Private Loan Fund III Management, LLC	None		Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None		Delaware
Barings - MM Revolver Fund GP LLC	None		Delaware
Barings Real Estate European Value Add Fund II Feeder LLC	None		Cayman Islands
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	None		Delaware
BIG Real Estate Fund GP LLC	None		Delaware
BIG Real Estate Incentive I LLC	None		Delaware
BIG Real Estate Incentive II LLC	None		Delaware
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	None		Delaware
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
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

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Yunfeng Financial Group Limited	None		Hong Kong
MassMutual Asia Limited (SPV)	None		Hong Kong
MassMutual External Benefits Group LLC	27-3576835		Delaware
100 w. 3rd Street LLC	04-1590850		Delaware
2160 Grand Manager LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	82-2432216		Delaware
300 South Tryon LLC	04-1590850		Delaware
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 Generation Fund II LP	None		Delaware
Barings Emerging Generation Fund, LP	84-3784245		Delaware
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands
Barings Hotel Opportunity Venture I LP	None		Delaware
Barings Real Estate Debt Income Fund LP	85-3449260		Delaware
Barings Real Estate European Value Add I SCSp	None		Luxembourg
Barings Small Business Fund, L.P.	None		Delaware
Barings-MM Revolver Fund LP	None		Delaware
Calgary Railway Holding LLC	82-2285211		Delaware
Combrook PRS Holdings LLC	82-3307907		Delaware
Cornerstone Fort Pierce Development, LLC	56-2630592		Delaware
Cornerstone Permanent Mortgage Fund II LLC	61-1750537		Massachusetts
Cornerstone Permanent Mortgage Fund III LLC	35-2531693		Massachusetts
Cornerstone Permanent Mortgage Fund IV LLC	61-1793735		Massachusetts
Cornerstone Permanent Mortgage Fund LLC	45-2632610		Massachusetts
CREA Ridge Apartments, LLC	None		Delaware
CREA/PPC Venture, LLC	20-0348173		Delaware
Euro Real Estate Holdings LLC	04-1590850		Delaware
Fan Pier Development LLC	20-3347091		Delaware
GIA EU Holdings LLC	04-1590850		Delaware
Landmark Manchester Holdings LLC	81-5360103		Delaware
Miami Douglas Three MM, LLC	04-1590850		Delaware
MM 1400 E 4th Street Member LLC	04-1590850		Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641		Delaware
MM Brookhaven Member LLC	04-1590850		Delaware
MM Debt Participations LLC	81-3000420		Delaware
MM East South Crossing Member LLC	04-1590850		Delaware
MM Horizon Savannah Member LLC	04-1590850		Delaware
MM Kannapolis Industrial Member LLC	04-1590850		Delaware
MM MD1 Station Member LLC	04-1590850		Delaware
MM MD2 Station Member LLC	04-1590850		Delaware
MM National Self-Storage Program Member LLC	04-1590850		Delaware

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

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MM REED District Landco Member LLC	None		Delaware
MM Subline Borrower LLC	04-1590850		Delaware
One Harbor Shore LLC	80-0948028		Delaware
PACO France Logistics LLC	04-1590850		Delaware
Portland 400 Sixth Manager LLC	None		Delaware
Riverwalk MM Member, LLC	None		Delaware
Ten Fan Pier Boulevard LLC	35-2553915		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Trailside MM Member II LLC	04-1590850		Delaware
Trailside MM Member LLC	04-1590850		Delaware
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC	45-5401109		Delaware
Washington Gateway Three LLC	32-0574045		Delaware
Washington Gateway Two LLC	83-1325764		Delaware
West 37th Street Hotel LLC	88-3861481		Delaware
Aland Royalty Holdings LP	None		Delaware
Chassis Acquisition Holding LLC	81-2244465		Delaware
CRA Aircraft Holding LLC	81-4258759		Delaware
EIP Holdings I, LLC	None		Delaware
Red Lake Ventures, LLC	46-5460309		Delaware
Validus Holding Company LLC	46-0687392		Delaware
VGS Acquisition Holding, LLC	None		Delaware
SBNP SIA II LLC	04-1590850		Delaware
SBNP SIA III LLC	None		Delaware
Other Affiliates & Funds:			
Almack Mezzanine Fund II Unleveraged LP	None		United Kingdom
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. 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

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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 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
Barings Global Dividends Champion Fund	None		Ireland
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 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

*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 – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	Federal Tax ID	NAIC Co Code	State of Domicile
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059		New York
Martello Re Limited	None		Bermuda
MM Direct Private Investment Holding	04-1590850		Delaware
MM CM Holding LLC	None		Delaware
MMV Climate Technology Fund GP	04-1590850		Delaware
Washington Pine LLC	04-1590850		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
Tower Square Capital Partners III, L.P.	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129		Delaware
Barings Affiliates & Funds:			
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	47-3790192		Massachusetts
CCIC Fund	None		Peoples Republic of China
Great Lakes II LLC*	71-1018134		Delaware
Wood Creek Venture Fund LLC	04-1590850		Delaware
Barings Real Estate Affiliates & Funds:			
Barings California Mortgage Fund IV	None		California
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None		Luxembourg
Cornerstone California Mortgage Fund I LLC	95-4207717		California
Cornerstone California Mortgage Fund II LLC	95-4207717		California
Cornerstone California Mortgage Fund III LLC	95-4207717		California
Danville Riverwalk Venture, LLC	82-2783393		Delaware
MMLIC Debt Participations LLC	13-1935920		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
MassMutual Premier Funds:			
MassMutual Premier Main Street Fund	51-0529328		Massachusetts
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Select Funds:			
MassMutual Select Fundamental Growth Fund	04-3512593		Massachusetts
MassMutual Select Mid-Cap Value Fund	42-1710935		Massachusetts
MassMutual Select Small Capital Value Equity Fund	02-0769954		Massachusetts
MassMutual Select Small Company Value Fund	04-3584140		Massachusetts
MassMutual Select T. Rowe Price Retirement 2005 Fund	82-3347422		Massachusetts
MassMutual Select T. Rowe Price Retirement 2010 Fund	82-3355639		Massachusetts
MassMutual Select T. Rowe Price Retirement 2015 Fund	82-3382389		Massachusetts
MassMutual Select T. Rowe Price Retirement 2020 Fund	82-3396442		Massachusetts
MassMutual Select T. Rowe Price Retirement 2025 Fund	82-3417420		Massachusetts
MassMutual Select T. Rowe Price Retirement 2030 Fund	82-3430358		Massachusetts
MassMutual Select T. Rowe Price Retirement 2035 Fund	82-3439837		Massachusetts
MassMutual Select T. Rowe Price Retirement 2040 Fund	82-3451779		Massachusetts
MassMutual Select T. Rowe Price Retirement 2045 Fund	82-3472295		Massachusetts

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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:			
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
MassMutual RetireSMART Funds:			
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 Core Bond Fund	04-3277549		Massachusetts
MassMutual Disciplined Growth Fund	04-3539084		Massachusetts
MassMutual Disciplined Value Fund	04-3539083		Massachusetts
MassMutual Diversified Value Fund	01-0821120		Massachusetts
MassMutual Equity Opportunities Fund	04-3512590		Massachusetts
MassMutual 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

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tionship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Per-cent-age	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.0435	Massachusetts Mut Life Ins Co	65935	04-1590850	3848388			Massachusetts Mutual Life Insurance Company (MMLIC) .....	.. MA.....	.. UIP.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0435	Massachusetts Mut Life Ins Co	93432	06-1041383				C.M. Life Insurance Company .....	.. CT.....	.. IA.....	Massachusetts Mutual Life Insurance 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		
.0000						CM Life Mortgage Lending LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						CML Mezzanine Investor III, LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						CML Special Situations Investor LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						CML Global Capabilities LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						MM Global Capabilities I LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						MassMutual Global Business Services India LLP .....	.. IND.....	.. NIA.....	MM Global Capabilities I LLC	Ownership.....	100.000 ..	MMLIC		
.0000						MM Global Capabilities (Netherlands) B.V. .....	.. NLD.....	.. NIA.....	MM Global Capabilities I LLC	Ownership.....	100.000 ..	MMLIC		
.0000						MassMutual Global Business Services Romania S.R.L. .....	.. ROU.....	.. NIA.....	MM Global Capabilities (Netherlands) B.V.	Ownership.....	100.000 ..	MMLIC		
.0000						MM Global Capabilities II LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						MM Global Capabilities III LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						MM/Barings Multifamily TEBS 2020 LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				Berkshire Way LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				MML Mezzanine Investor II, LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				MML Mezzanine Investor III, LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	11.100 ..	MMLIC		
.0000						MML Special Situations Investor LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						Timberland Forest Holding LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						Timberland Forest Holding LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Influence.....	.. 0.000 ..	MMLIC		
.0000						Timberland Forest Holding LLC .....	.. DE.....	.. NIA.....	Wood Creek Capital Management LLC	Management.....		MMLIC		
.0000						Lyme Adirondack Forest Company, LLC .....	.. DE.....	.. NIA.....	Timberland Forest Holding 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 Timberlands II, LLC .....	.. DE.....	.. NIA.....	Lyme Adirondack Forest Company, LLC	Ownership.....	100.000 ..	MMLIC		
.0000						Lyme Adirondack Timber Sales, LLC .....	.. DE.....	.. NIA.....	Lyme Adirondack Forest Company, LLC	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				MSP-SC, LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				Insurance Road LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				MassMutual Trad Private Equity LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC	Ownership.....	100.000 ..	MMLIC		
.0000		04-1590850				MassMutual Intellectual Property LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC	Ownership.....	100.000 ..	MMLIC		
.0000						Trad Investments I LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC	Ownership.....	100.000 ..	MMLIC		
.0000						ITPSHolding LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		
.0000						ITPS LLC .....	.. DE.....	.. NIA.....	ITPS Holding LLC	Ownership.....	100.000 ..	MMLIC		
.0000						EM Opportunities LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- iliary Loca- tion	10 Rela- tion- ship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000						MassMutual NCAM Insurance Company, Inc. ....		. VT....	. NIA....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000						MassMutual Ventures US IV, GP, LLC .....		. DE....	. NIA....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000						MassMutual Ventures US IV, L.P. ....		. DE....	. NIA....	MassMutual Ventures US IV, GP, LLC	Ownership.....	100.000 ...	MMLIC		
.0000						MassMutual Ventures US IV LLC .....		. DE....	. NIA....	MassMutual Ventures US IV, L.P.	Ownership.....	100.000 ...	MMLIC		
.0435						MassMutual Ventures Europe/APAC I GP, LLC .....		. DE....	. NIA....	MassMutual Ventures Europe/APAC I GP, LLC	Ownership.....	100.000 ...	MMLIC		
.0435						MassMutual Ventures Europe/APAC I GP, L.P. ....		. CYM....	. NIA....	MassMutual Ventures Europe/APAC I GP, L.P.	Ownership.....	100.000 ...	MMLIC		
.0435						MassMutual Ventures Europe/APAC I L.P. ....		. CYM....	. NIA....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0435						Counterpointe Sustainable Advisors LLC .....		. DE....	. NIA....	Counterpointe Sustainable Advisors LLC	Ownership.....	100.000 ...	MMLIC		
.0000						CSA Intermediate Holdco LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Counterpointe Trust Services LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						CP PACE LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						CSA Employee Services Company LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Counterpointe Sustainable Real Estate II LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Counterpointe Energy Solutions II LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Counterpointe Energy Solutions (CA) II LLC .....		. DE....	. NIA....	Counterpointe Energy Solutions II LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Counterpointe Energy Services LLC .....		. DE....	. NIA....	CSA Intermediate Holdco LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Parent LLC .....		. DE....	. NIA....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Finance LLC .....		. DE....	. NIA....	JFIN Parent LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies GP Adviser LLC .....		. DE....	. NIA....	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		1
.0000						JFIN Fund III LLC .....		. DE....	. NIA....	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Credit Partners LLC .....		. DE....	. NIA....	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Apex Credit Partners LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Credit Management LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JCP Direct Lending CLO 2022 LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	9.900 ...	MMLIC		
.0000						Jefferies Direct Lending Europe SCSp SICAV-RAIF .....		. LUX....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	9.900 ...	MMLIC		
.0000						Jefferies Credit Management Holdings LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	9.900 ...	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....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFAM GP LP .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Direct Lending Fund C LP .....		. DE....	. NIA....	JFAM GP LP	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies DLF C Holdings LLC .....		. DE....	. NIA....	Jefferies Direct Lending Fund C LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Direct Lending Fund C SPE LLC .....		. DE....	. NIA....	Jefferies DLF C Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JDLF II GP LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JDLF II GP LP .....		. DE....	. NIA....	JDLF II GP LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Direct Lending Fund II C LP .....		. DE....	. NIA....	JDLF II GP LP	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies DLF 2 C Holdings LLC .....		. DE....	. NIA....	Jefferies Direct Lending Fund II C LP	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Direct Lending Fund II C SPE LLC .....		. DE....	. NIA....	Jefferies DLF 2 C Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JCP Direct Lending CLO 2023-1 LLC .....		. DE....	. NIA....	Jefferies Credit Partners LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JCP Direct Lending CLO 2023 Ltd. ....		. JEV....	. NIA....	JCP Direct Lending CLO 2023 Ltd.	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Private Credit BDC Inc. ....		. MD....	. NIA....	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Senior Lending LLC .....		. DE....	. NIA....	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000						Jefferies Credit Partners BDC Inc		MD...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Holdings LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Holdings II LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Holdings IV LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Co-Issuer Corporation		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Europe GP, S.a.r.l.		LUX...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Finance Europe, S.L.P.		LUX...	NIA...	JFIN Europe GP, S.a.r.l.	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Finance Europe, SCSP		LUX...	NIA...	JFIN Europe GP, S.a.r.l.	Ownership.....	100.000 ...	MMLIC		
.0000						Jefferies Finance Business Credit LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Business Credit Fund I LLC		DE...	NIA...	Jefferies Finance Business Credit LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Funding 2021 LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN High Yield Investments LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN LC Fund LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2017 Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2017-II Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2017-III Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2018 Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2019 Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2019-II Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2020 Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2021-II Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2021-V Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2022-II Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2022-III Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver CLO 2022-IV Ltd.		CYM...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Fund, L.P.		DE...	NIA...	Jefferies Finance LLC	Ownership.....	.90.000 ...	MMLIC		
.0000						JFIN Revolver Funding 2021 Ltd.		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Funding 2021 III Ltd.		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Funding 2021 IV Ltd.		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver Funding 2022-I Ltd.		BMU...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver SPE1 2022 LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN Revolver SPE3 2022 LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						SFL Parkway Funding 2022 LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JCP Private Loan Management GP LLC		DE...	NIA...	Jefferies Finance LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JCP Private Loan Management LP		DE...	NIA...	JCP Private Loan Management GP 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...	NIA...	Beauty Brands Acquisition LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Forma Brands, LLC		DE...	NIA...		Ownership.....	.100.000 ...	MMLIC		
.0000						Apex Credit Holdings LLC		DE...	NIA...	JFIN Parent LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2012 Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2013 Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2014 Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2014-II Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2015 Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						JFIN CLO 2015-II Ltd.		CYM...	NIA...	Apex Credit Holdings LLC	Ownership.....	.85.000 ...	MMLIC		

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.0000						JFIN CLO 2016 Ltd.		.CYM.	.NIA.	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
.0000						JFIN CLO 2017 Ltd.		.CYM.	.NIA.	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
.0000						JFIN CLO 2017-II Ltd.		.CYM.	.NIA.	Apex Credit Holdings LLC	Ownership	100.000	MMLIC		
.0000						Tomorrow Parent, LLC		.DE.	.NIA.	JFIN Parent LLC	Ownership	100.000	MMLIC		
.0000						Custom Ecology Holdco, LLC		.DE.	.NIA.	JFIN Parent LLC	Ownership	100.000	MMLIC		
.0000						Glidepath Holdings Inc.		.DE.	.UIP.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0435	Massachusetts Mut Life Ins Co	63312	13-1935920			MassMutual Ascend Life Insurance Company		.OH.	.UIP.	Glidepath Holdings Inc.	Ownership	100.000	MMLIC		
.0000			31-1422717			AAG Insurance Agency, LLC		.KY.	.NIA.	MassMutual Ascend Life Insurance Company	Ownership	100.000	MMLIC		
.0435	Massachusetts Mut Life Ins Co	93661	31-1021738			Annuity Investors Life Insurance Company		.OH.	.IA.	MassMutual Ascend Life Insurance Company	Ownership	100.000	MMLIC		
.0000			31-1395344			MM Ascend Life Investor Services, LLC		.OH.	.NIA.	MassMutual Ascend Life Insurance Company	Ownership	100.000	MMLIC		
.0000						MM Ascend Mortgage Lending LLC		.OH.	.NIA.	MassMutual Ascend Life Insurance Company	Ownership	100.000	MMLIC		
.0000			26-3260520			Manhattan National Holding, LLC		.OH.	.UDP.	MassMutual Ascend Life Insurance Company	Ownership	100.000	MMLIC		
.0435	Massachusetts Mut Life Ins Co	67083	45-0252531			Manhattan National Life Insurance Company		.OH.	.RE.	Manhattan National Holding LLC	Ownership	100.000	MMLIC		
.0000						MassMutual Mortgage Lending LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000			04-1590850			MM Copper Hill Road LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						MMV CTF I GP LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						MassMutual Ventures Climate Technology Fund I LP		.DE.	.NIA.	MMV CTF I GP LLC	Ownership	100.000	MMLIC		
.0000						MM Direct Private Investments Holding LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance 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 Company	Ownership	100.000	MMLIC		
.0000						DPI-ARES Mortgage Lending LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						MM Investment Holding		.CYM.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						MMIH Bond Holdings LLC		.DE.	.NIA.	MM Investment Holding	Ownership	99.610	MMLIC		
.0000			26-0073611			MassMutual Asset Finance LLC		.DE.	.NIA.	C.M. Life Insurance Company	Ownership	0.400	MMLIC		
.0000			26-0073611			MassMutual Asset Finance LLC		.DE.	.NIA.	MM Investment Holding	Ownership	99.610	MMLIC		
.0000						MMAF Equipment Finance LLC 2017-B		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000			32-0546197			MMAF Equipment Finance LLC 2018-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000			82-5335801			MMAF Equipment Finance LLC 2019-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000			83-3722640			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	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2020-B		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2021-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2022-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2022-B		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2023-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						Rozier LLC		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000			04-2443240			MML Management Corporation		.MA.	.NIA.	MN Investment Holding	Ownership	100.000	MMLIC		
.0000			04-3548444			MassMutual International Holding MSC, Inc.		.MA.	.NIA.	MML Management Corporation	Ownership	100.000	MMLIC		
.0000			04-3341767			MassMutual Holding MSC, Inc.		.MA.	.NIA.	MML Management Corporation	Ownership	100.000	MMLIC		
.0000						MML CM LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						Blueprint Income LLC		.NY.	.NIA.	MML CM LLC	Ownership	100.000	MMLIC		

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percent-age	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Required? (Yes/No)	*
.0000						Flourish Digital Assets LLC		.DE.	NIA.	MML CM LLC	Ownership	100.00	MMLIC		
.0000						Flourish Financial LLC		.DE.	NIA.	MML CM LLC	Ownership	100.00	MMLIC		
.0000						Flourish Holding Company LLC		.DE.	NIA.	MML CM LLC	Ownership	100.00	MMLIC		
.0000						Flourish Insurance Agency LLC		.DE.	NIA.	Flourish Holding Company LLC	Ownership	100.00	MMLIC		
.0000						Flourish Technologies LLC		.DE.	NIA.	MML CM LLC	Ownership	100.00	MMLIC		
.0000						MassMutual Ventures US IV GP		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	99.00	MMLC		
.0000		04-1590850	04-1590850			MassMutual Ventures US IV GP		.DE.	NIA.	Massachusetts Mutual Ascend	Ownership	1.00	MMLC		
.0000		04-1590850	04-1590850			MassMutual Venture US IV LP		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	99.00	MMLC		
.0000		04-3356880	04-3356880			MML Distributors LLC		.MA.	NIA.	MassMutual Holding LLC	Ownership	99.00	MMLIC		
.0000		04-3356880	04-3356880			MML Distributors LLC		.MA.	NIA.	Massachusetts Mutual Life Insurance	Ownership	1.00	MMLIC		
.0000						MML Investment Advisers, LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			46-3238013			MML Strategic Distributors, LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			06-1563535	2881445		The MassMutual Trust Company, FSB		.CT.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			04-1590850			MML Private Placement Investment Company I, LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			04-1590850			MML Private Equity Fund Investor LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			04-1590850			MML Private Equity Fund Investor LLC		.DE.	NIA.	Baring Asset Management Limited	Management		MMLIC		
.0000			04-1590850			MM Private Equity Intercontinental LLC		.DE.	NIA.	MML Private Equity Fund Investor LLC	Ownership	100.00	MMLIC		
.0000			45-2738137			Pioneers Gate LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			04-2854319	2392316		MassMutual Holding LLC		.DE.	NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.00	MMLIC		
.0000			37-1732913			Fern Street LLC		.DE.	NIA.	MassMutual Holding LLC	Ownership	100.00	MMLIC		
.0000						Low Carbon Energy Holding		.GBR.	NIA.	MassMutual Holding LLC	Ownership	49.00	MMLIC		
.0000						Sleeper Street LLC		.DE.	NIA.	MassMutual Holding LLC	Ownership	100.00	MMLIC		
.0000						Teaktree Acquisition, LLC		.DE.	NIA.	MassMutual Holding LLC	Ownership/Influence	14.700	MMLIC		
.0000						Teaktree Acquisition, LLC		.DE.	NIA.	Barings LLC	Influence		MMLIC		
.0000			46-2252944			Haven Life Insurance Agency, LLC		.DE.	NIA.	MassMutual Holding LLC	Ownership	100.00	MMLIC		
.0000			82-2932156			GASL Holdings LLC		.DE.	NIA.	MassMutual Holding LLC	Ownership	11.300	MMLIC		
.0000			82-2932156			GASL Holdings LLC		.DE.	NIA.	Barings LLC	Board		MMLIC		
.0000			36-4868350			Barings Asset-Based Income Fund (US) LP		.DE.	NIA.	MassMutual Holding LLC	Ownership/Influence	11.300	MMLIC		
.0000			36-4868350			Barings Asset-Based Income Fund (US) LP		.DE.	NIA.	C.M. Life Insurance Company	Ownership/Influence	1.100	MMLIC		
.0000			36-4868350			Barings Asset-Based Income Fund (US) LP		.DE.	NIA.	Barings LLC	Management		MMLIC		
.0000			98-1206017			Babson Capital Global Special Situation Credit Fund 2		.DE.	NIA.	MassMutual Holding LLC	Ownership/Influence	22.900	MMLIC		
.0000			98-1206017			Babson Capital Global Special Situation Credit Fund 2		.DE.	NIA.	C.M. Life Insurance Company	Ownership		MMLIC		
.0000			98-1206017			Babson Capital Global Special Situation Credit Fund 2		.DE.	NIA.	Barings LLC	Management		MMLIC		
.0000			82-3867745			Barings Global Real Assets Fund LP		.DE.	NIA.	MassMutual Holding LLC	Ownership/Influence	27.600	MMLIC		
.0000			82-3867745			Barings Global Real Assets Fund LP		.DE.	NIA.	Massachusetts Mutual Life Insurance					
.0000			82-3867745			Barings Global Real Assets Fund LP		.DE.	NIA.	Company	Ownership/Influence	14.300	MMLIC		
.0000			82-3867745			Barings Global Real Assets Fund LP		.DE.	NIA.	C.M. Life Insurance Company	Ownership	7.100	MMLIC		

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.0000			82-3867745			Barings Global Real Assets Fund LP		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Global Special Situations Credit Fund		.IRL.	.NIA.	MassMutual Holding LLC	Ownership/Influence	19.600	MMLIC		
.0000						Barings Global Special Situations Credit Fund		.IRL.	.NIA.	Barings LLC	Management		MMLIC		
.0000			38-4010344			Barings North American Private Loan Fund LP		.DE.	.NIA.	MassMutual Holding LLC	Ownership/Influence	52.200	MMLIC		
.0000			38-4010344			Barings North American Private Loan Fund LP		.DE.	.NIA.	Baring Asset Management Limited	Management		MMLIC		
.0000			06-1597528			MassMutual Assignment Company		.NC.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.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	Ownership	100.000	MMLIC		
.0000						Intermodal Holding II LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000						MassMutual Ventures Holding LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000						Athens Fund Management LLC		.DE.	.NIA.	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.	.NIA.	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
.0000						MassMutual Ventures SEA Management Private Limited		.DE.	.NIA.	MassMutual Ventures Management LLC	Ownership	100.000	MMLIC		
.0000						MMV UK/SEA Limited		.GBR.	.NIA.	MassMutual Ventures SEA Management Private Limited	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.	.NIA.	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
.0000						MassMutual Ventures Southeast Asia III LLC		.DE.	.NIA.	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
.0000						MMV Digital I LLC		.CYM.	.NIA.	MassMutual Ventures Management LLC	Ownership	100.000	MMLIC		
.0000						MassMutual Ventures UK LLC		.DE.	.NIA.	MassMutual Ventures Holding LLC	Ownership	100.000	MMLIC		
.0000			47-1296410			MassMutual Ventures US I LLC		.DE.	.NIA.	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						MM Catalyst Fund LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000						MM Catalyst Fund II LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			04-1590850			MM Rothesay Holdco US LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000						Rothesay Limited		.GBR.	.NIA.	MM Rothesay Holdco US LLC	Ownership	48.800	MMLIC		
.0000						Rothesay Mortgages Limited		.GBR.	.NIA.	Rothesay Limited	Ownership	100.000	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 MA No.3 Limited		.GBR.	.NIA.	Rothesay Life PLC	Ownership	100.000	MMLIC		
.0000						Rothesay MA No.4 Limited		.GBR.	.NIA.	Rothesay Life PLC	Ownership	100.000	MMLIC		
.0000						LT Mortgage Finance Limited		.GBR.	.NIA.	Rothesay Life PLC	Ownership	100.000	MMLIC		
.0000						Rothesay Property Partnership 1 LLP		.GBR.	.NIA.	Rothesay Life PLC	Ownership	100.000	MMLIC		
.0000						Rothesay Foundation		.GBR.	.NIA.	Rothesay Limited	Ownership	100.000	MMLIC		
.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						Rothesay Asset Management Australia Pty Ltd		.AUS.	.NIA.	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
.0000			04-1590850			Rothesay Asset Management North America LLC		.DE.	.NIA.	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
.0000			04-1590850			MML Investors Services, LLC		.MA.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			41-2011634			MML Insurance Agency, LLC		.MA.	.NIA.	MML Investors Services, LLC	Ownership	100.000	MMLIC		
.0000			47-1466022			MMLISI Financial Alliances, LLC		.DE.	.NIA.	MML Investors Services, LLC	Ownership	100.000	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000		45-4000072				MM Asset Management Holding LLC .....	..MA.....	..NIA.....	..MassMutual Holding LLC	Ownership.....	100.000 ..	MMLIC			
.0000		51-0504477				Barings LLC .....	..MA.....	..NIA.....	..MassMutual Holding LLC	Ownership.....	100.000 ..	MMLIC			
.0000		98-0524271				Baring Asset Management (Asia) Holdings Limited .....	..HKG.....	..NIA.....	..Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000		98-0457465				Baring International Fund Managers (Bermuda) Limited .....	..BMU.....	..NIA.....	Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000		98-0457463				Baring Asset Management (Asia) Limited .....	..HKG.....	..NIA.....	Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Baring Asset Management Korea Limited .....	..KOR.....	..NIA.....	Baring Asset Management (Asia) Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Investment Management (Shanghai) Limited .....	..HKG.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Overseas Investment Fund Management (Shanghai) Limited .....	..HKG.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Baring SICE (Taiwan) Limited .....	..TWN.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Singapore Pte. Ltd. .....	..SGP.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000		98-0236449				Barings Japan Limited .....	..JPN.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Holding Company Pty Ltd .....	..AUS.....	..NIA.....	..Baring Asset Management (Asia) Holdings Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Holding Company Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Real Estate Holdings Pty Ltd .....	..AUS.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Real Estate Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Real Estate Holdings Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000		14-0045656				Barings Australia Property Partners Holdings Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Real Estate Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000		98-0457456				Barings Australia Asset Management Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Property Partners Holdings Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Property Partners Pty Ltd .....	..AUS.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Structured Finance Holdings Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Structured Finance Holdings Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Australia Structured Finance Pty Ltd .....	..AUS.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000						Gryphon Capital Partners Pty Ltd .....	..AUS.....	..NIA.....	Barings Australia Structured Finance Holdings Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000						Gryphon Capital Management Pty Ltd .....	..AUS.....	..NIA.....	Gryphon Capital Partners Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000						Gryphon Capital Investments Pty Ltd .....	..AUS.....	..NIA.....	Gryphon Capital Partners Pty Ltd	Ownership.....	100.000 ..	MMLIC			
.0000		80-0875475				Barings Finance LLC .....	..DE.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000						BCF Europe Funding Limited .....	..IRL.....	..NIA.....	Barings Finance LLC	Ownership.....	100.000 ..	MMLIC			
.0000						BCF Senior Funding I LLC .....	..DE.....	..NIA.....	Barings Finance LLC	Ownership.....	100.000 ..	MMLIC			
.0000						BCF Senior Funding I Designated Activity Company .....	..IRL.....	..NIA.....	Barings Finance LLC	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Real Estate Acquisitions LLC .....	..DE.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000		04-3238351				Barings Securities LLC .....	..DE.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000		98-0437588				Barings Guernsey Limited .....	..GGY.....	..NIA.....	Barings LLC	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Europe Limited .....	..GBR.....	..NIA.....	Barings Guernsey Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Barings Asset Management Spain SL .....	..ESP.....	..NIA.....	Barings Europe Limited	Ownership.....	100.000 ..	MMLIC			
.0000						Baring France SAS .....	..FRA.....	..NIA.....	Barings Europe Limited	Ownership.....	100.000 ..	MMLIC			

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						Baring International Fund Managers (Ireland) Limited		.IRL.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000						Barings GmbH		.DEU.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000						Barings Italy S.r.l.		.ITA.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000						Barings Sweden AB		.SWE.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000						Barings Netherlands B.V.		.NLD.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000		98-0432153				Barings (U.K.) Limited		.GBR.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000		98-0241935				Barings Switzerland Sàrl		.CHE.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000		98-0457328				Baring Asset Management Limited		.GBR.	.NIA.	Barrings Europe Limited	Ownership.	100.000	MMLIC		
.0000		98-0457587				Barings European Direct Lending 1 GP LLP		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000		98-0457587				Baring International Investment Limited		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000		98-0457587				Baring International Investment Management Holdings		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000		98-0457576				Baring Asset Management UK Holdings Limited		.GBR.	.NIA.	Baring International Investment Management Holdings	Ownership.	100.000	MMLIC		
.0000		98-0457586				Baring Fund Managers Limited		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000		98-0457578				BCSS 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						Barings Core Fund Feeder I GP S.à.r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000						Barings Investment Fund (LUX) GP S.à. r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000						Barings BME GP S.à.r.l.		.GBR.	.NIA.	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 Umbrella Fund (LUX) GP S.à.r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000						GPLF4(S) GP S.à.r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000						PREIF Holdings Limited Partnership		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.	100.000	MMLIC		
.0000						BMC Holdings DE LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		04-3238351	3456895			Barings Real Estate Advisers Inc.		.CA.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		81-4065378				Remington L & W Holdings LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	19.900	MMLIC		
.0000		81-4065378				Remington L & W Holdings LLC		.DE.	.NIA.	Barings LLC	Influence.		MMLIC		
.0000						Aland Royalty GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Alaska Future Fund GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						BAI Funds SLP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						BAI GP, LLC		.DE.	.NIA.	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.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings Infiniti Fund Management LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings Hotel Opportunity Venture I GP, LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	100.000	MMLIC		
.0000						Baring Investment Series LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings Emerging Generation Fund GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings Emerging Generation Fund GP II, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings ERS PE Emerging Manager III GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		04-1590850				Barings Global Investment Funds (U.S.) Management LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		04-1590850				Barings CLO Investment Partners GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		04-1590850				Barings Core Property Fund GP LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		04-1590850				Barings Direct Lending GP Ltd.		.CVM.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000						Barings Global Energy Infrastructure Advisors, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings Centre Street CLO Equity Partnership GP, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000		88-3792609				Barings Centre Street CLO Equity Partnership LP	Massachusetts Mutual Life Insurance Company	DE... NIA...		Massachusetts Mutual Life Insurance Company	Ownership/Influence	22.700 ...	MMLIC		
.0000		88-3792609				Barings Centre Street CLO Equity Partnership LP	Barings LLC	DE... NIA...		Barings LLC	Management.....		MMLIC		
.0000						Barings Global Real Assets Fund GP, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings GPSF LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings North American Private Loan Fund Management, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings North American Private Loan Fund II Management, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings North American Private Loan Fund III Management, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings - MM Revolver Fund GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings Real Estate European Value Add Fund II Feeder LLC	Barings LLC	CYM... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BMT RE Debt Fund GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000		84-5063008				Barings Small Business Fund LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	38.200 ...	MMLIC		
.0000		84-5063008				Barings Small Business Fund LLC	Barings LLC	DE... NIA...		Barings LLC	Management.....		MMLIC		
.0000		98-0536233				Benton Street Advisors, Inc.	Barings LLC	CYM... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BHOVI Incentive LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BIG Real Estate Fund GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BIG Real Estate Incentive I LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BIG Real Estate Incentive II LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BRECS VII GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						BREDIF GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						CREF X GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000		04-1590850				Great Lakes III GP, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Lake Jackson LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings Emerging Markets Blended Fund I GP, LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000			41-2280126			Mezzco III LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	.99.300 ...	MMLIC		
.0000			80-0920285			Mezzco IV LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	.99.300 ...	MMLIC		
.0000						Mezzco Australia II LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000			98-1624360			RECSA-NY GP LLC	Barings LLC	DE... NIA...		Barings LLC	Ownership.....	100.000 ...	MMLIC		
.0000						Barings CLO 2022-I	Barings LLC	CYM... NIA...		Barings LLC	Influence.....		MMLIC		
.0000						Barings CLO 2022-II	Barings LLC	CYM... NIA...		Barings LLC	Influence.....		MMLIC		
.0000						Amherst Long Term Holdings, LLC	Barings LLC	DE... NIA...		Barings LLC	Massachusetts Mutual Life Insurance Company	Ownership.....	24.500 ...	MMLIC	
.0000			04-3313782			MassMutual International LLC	Barings LLC	DE... NIA...		Barings LLC	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC	
.0000						MassMutual Solutions LLC	Barings LLC	DE... NIA...		Barings LLC	MassMutual International LLC	Ownership.....	100.000 ...	MMLIC	
.0000						Haven Technologies Asia Limited	Barings LLC	HKG...		Barings LLC	MassMutual Solutions LLC	Ownership.....	100.000 ...	MMLIC	
.0000						Yunfeng Financial Group Limited	Barings LLC	HKG...		Barings LLC	MassMutual International LLC	Ownership.....	.24.900 ...	MMLIC	

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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.0000						MassMutual Asia Limited (SPV)		.HKG.	.NIA.	MassMutual International LLC	Ownership	100.000	MMLIC		
.0000		27-3576835				MassMutual External Benefits Group LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000		04-1590850				100 w. 3rd Street LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000		04-1590850				2160 Grand Manager LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000		82-2432216				300 South Tryon Hotel LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000		04-1590850				300 South Tryon LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						Barings Affordable Housing Mortgage Fund I LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						Barings Affordable Housing Mortgage Fund I LLC		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Affordable Housing Mortgage Fund II LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						Barings Affordable Housing Mortgage Fund II LLC		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Affordable Housing Mortgage Fund III LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000						Barings Affordable Housing Mortgage Fund III LLC		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Emerging Generation Fund II LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	39.700	MMLIC		
.0000						Barings Emerging Generation Fund, LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	40.300	MMLIC		
.0000						Barings Emerging Generation Fund, LP		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Global Energy Infrastructure Fund I LP		.CYM.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	100.000	MMLIC		
.0000						Barings Global Energy Infrastructure Fund I LP		.CYM.	.NIA.	Baring Asset Management Limited	Management		MMLIC		
.0000						Barings Hotel Opportunity Venture I LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	65.000	MMLIC		
.0000						Barings Hotel Opportunity Venture I LP		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Real Estate Debt Income Fund LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	76.900	MMLIC		
.0000						Barings Real Estate Debt Income Fund LP		.DE.	.NIA.	C.M. Life Insurance Company	Influence		MMLIC		
.0000						Barings Real Estate Debt Income Fund LP		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Real Estate European Value Add I SCS		.LUX.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	42.000	MMLIC		
.0000						Barings Real Estate European Value Add I SCS		.LUX.	.NIA.	C.M. Life Insurance Company	Ownership	4.700	MMLIC		
.0000						Barings Real Estate European Value Add I SCS		.LUX.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Small Business Fund, L.P.		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	33.600	MMLIC		
.0000						Barings-MM Revolver Fund LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	86.000	MMLIC		
.0000						Calgary Railway Holding LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	90.000	MMLIC		
.0000						Calgary Railway Holding LLC		.DE.	.NIA.	C.M. Life Insurance Company	Ownership	10.000	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000			82-3307907				Cornbrook PRS Holdings LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			56-2630592				Cornerstone Fort Pierce Development, LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	90.000 ...	MMLIC		
.0000			56-2630592				Cornerstone Fort Pierce Development, LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	5.900 ...	MMLIC		
.0000			61-1750537				Cornerstone Permanent Mortgage Fund II LLC	MA...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			61-1750537				Cornerstone Permanent Mortgage Fund II LLC	MA...	NIA...	Barings LLC	Management.....		MMLIC		
.0000							Cornerstone Permanent Mortgage Fund III LLC	MA...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	MA...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			45-2632610				Cornerstone Permanent Mortgage Fund LLC	MA...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	98.800 ...	MMLIC		
.0000			45-2632610				Cornerstone Permanent Mortgage Fund LLC	MA...	NIA...	Barings LLC	Management.....		MMLIC		
.0000							CREA Ridge Apartments, LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			20-0348173				CREA/PPC Venture, LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				Euro Real Estate Holdings LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	50.000 ...	MMLIC		
.0000			20-3347091				Fan Pier Development LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	65.000 ...	MMLIC		
.0000			20-3347091				Fan Pier Development LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	5.900 ...	MMLIC		
.0000							GIA EU Holdings LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			81-5360103				Landmark Manchester Holdings LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				Miami Douglas Three MM, LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				MM 1400 E 4th Street Member LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	96.000 ...	MMLIC		
.0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	27.000 ...	MMLIC		
.0000			87-4021641				MM BIG Peninsula Co-Invest Member LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	0.800 ...	MMLIC		
.0000			04-1590850				MM Brookhaven Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000 ...	MMLIC		
.0000			81-3000420				MM Debt Participations LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership/Influence	100.000 ...	MMLIC		
.0000			81-3000420				MM Debt Participations LLC	DE...	NIA...	Barings LLC	Management.....		MMLIC		
.0000			04-1590850				MM East South Crossing Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000 ...	MMLIC		
.0000			04-1590850				MM Horizon Savannah Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000 ...	MMLIC		
.0000			04-1590850				MM Horizon Savannah Member LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	3.700 ...	MMLIC		
.0000			04-1590850				MM Indianapolis Industrial Member LLC	DE...	NIA...	Massachusetts Mutual Ascend	Ownership.....	82.720 ...	MMLIC		
.0000			04-1590850				MM Indianapolis Industrial Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	12.280 ...	MMLIC		
.0000			04-1590850				MM MD1 Station Member LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				MM MD1 Station Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				MM MD2 Station Member LLC	DE...	NIA...	C.M. Life Insurance Company	Ownership.....	100.000 ...	MMLIC		
.0000			04-1590850				MM MD2 Station Member LLC	DE...	NIA...	Massachusetts Mutual Life Insurance Company	Ownership.....		MMLIC		

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PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000		04-1590850				MM National Self-Storage Program Member LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	98.000	MMLIC				
.0000						MM REED District Landco Member LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-1590850				MM Subline Borrower LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLC				
.0000		80-0948028				One Harbor Shore LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000	MMLIC				
.0000		80-0948028				One Harbor Shore LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	6.000	MMLIC				
.0000		04-1590850				PACO France Logistics LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000						Riverwalk MM Member, LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		35-2553915				Ten Fan Pier Boulevard LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		81-5273574				Three PW Office Holding LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000	MMLIC				
.0000		04-1590850				Trailside MM Member II LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	47.100	MMLIC				
.0000		04-1590850				Trailside MM Member LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	66.970	MMLIC				
.0000		04-1590850				Trailside MM Member LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	7.380	MMLIC				
.0000		82-3250684				Unna, Dortmund Holding LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		45-5401109				Washington Gateway Apartments Venture LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	95.800	MMLIC				
.0000		45-5401109				Washington Gateway Apartments Venture LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	4.800	MMLIC				
.0000		32-0574045				Washington Gateway Three LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	95.000	MMLIC				
.0000		32-0574045				Washington Gateway Three LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	11.400	MMLIC				
.0000		83-1325764				Washington Gateway Two LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	95.800	MMLIC				
.0000		83-1325764				Washington Gateway Two LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	6.700	MMLIC				
.0000		88-3861481				West 37th Street Hotel LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	93.700	MMLIC				
.0000		88-3861481				West 37th Street Hotel LLC	..DE..... NIA.....	C.M. Life Insurance Company	Ownership.....	6.300	MMLIC				
.0000		83-0560183				Aland Royalty Holdings LP	..DE..... NIA.....	MassMutual Holding LLC	Ownership/Influence	26.690	MMLIC				
.0000		83-0560183				Aland Royalty Holdings LP	..DE..... NIA.....	Barings LLC	Management.....		MMLIC				
.0000		81-2244465				Chassis Acquisition Holding LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	30.000	MMLIC				
.0000		81-4258759				CRA Aircraft Holding LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	40.000	MMLIC				
.0000		81-4258759				CRA Aircraft Holding LLC	..DE..... NIA.....	Barings LLC	Influence.....		MMLIC				
.0000						EIP Holdings I, LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	29.000	MMLIC				
.0000		46-5460309				Red Lake Ventures, LLC	..DE..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	31.520	MMLIC				
.0000		46-5460309				Red Lake Ventures, LLC	..DE..... NIA.....	Barings LLC	Influence.....		MMLIC				
.0000		46-0687392				Validus Holding Company LLC	..DE..... NIA.....	Barings LLC	Ownership.....	40.440	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		04-1590850				SBNP SIA II LLC	..DE..... NIA.....	Barings LLC	Ownership.....	100.000	MMLIC				

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.0000						SBNP SIA III LLC		.DE.	.NIA.	Barings LLC	Ownership	100.000	MMLIC		
.0000						Almack Mezzanine Fund II Unleveraged LP		.GBR.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	72.900	MMLIC		
.0000						Barings Emerging Markets Corporate Bond Fund		.IRL.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	56.700	MMLIC		
.0000						Barings Emerging Markets Corporate Bond Fund		.IRL.	.NIA.	Barings LLC	Ownership	18.300	MMLIC		
.0000						Barings European Real Estate Debt Income Fund		.LUX.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	63.500	MMLIC		
.0000						Barings European Real Estate Debt Income Fund		.LUX.	.NIA.	Barings LLC	Influence		MMLIC		
.0000		37-1506417				Babson Capital Loan Strategies Fund, L.P.		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	76.634	MMLIC		
.0000		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.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	59.400	MMLIC		
.0000						Barings US High Yield Bond Fund		.IRL.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Babson CLO Ltd. 2015-I		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		2
.0000						Babson CLO Ltd. 2015-II		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		3
.0000						Babson CLO Ltd. 2016-I		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Babson CLO Ltd. 2016-II		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO Ltd. 2017-I		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2018-III		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2018-IV		.CYM.	.NIA.	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-III		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2019-IV		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2020-I		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2020-II		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings CLO 2020-III		.CYM.	.NIA.	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		
.0000						Barings CLO 2021-III		.CYM.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Babson Euro CLO 2014-I BV		.NLD.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Babson Euro CLO 2014-II BV		.NLD.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Babson Euro CLO 2015-I BV		.NLD.	.NIA.	Barings LLC	Influence		MMLIC		
.0000		36-037260H				Barings Euro CLO 2019-I BV		.IRL.	.NIA.	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.	.NIA.	Barings LLC	Influence		MMLIC		
.0000		37-15576VH				Barings Euro CLO 2021-I DAC		.IRL.	.NIA.	Barings LLC	Influence		MMLIC		
.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-I DAC		.IRL.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings Global Em. Markets Equity Fund		.NC.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Global Special Situations Credit 4 Delaware		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership	67.700	MMLIC		

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SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000						Barings Global Special Situations Credit 4 DelawareDE.....	.NIA.....	C.M. Life Insurance Company	Ownership.....	3.600	MMLIC		
.0000						Barings Global Special Situations Credit 4 Delaware .....		.DE.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX .....		.LUX.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	13.100	MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX .....		.LUX.....	.NIA.....	C.M. Life Insurance Company	Ownership.....	0.700	MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX .....		.LUX.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000						Barings Global Technology Equity Fund .....		.IRL.....	.NIA.....	Barings LLC	Ownership/Influence	70.730	MMLIC		
.0000						Barings Global Dividends Champion Fund .....		.IRL.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000						Barings Europe Select Fund .....		.IRL.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000		87-0977058				Barings Hotel Opportunity Venture .....		.CT.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	51.100	MMLIC		
.0000		87-0977058				Barings Hotel Opportunity Venture .....		.CT.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000		86-3661023				Barings Innovations & Growth Real Estate Fund .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	30.000	MMLIC		
.0000		86-3661023				Barings Innovations & Growth Real Estate Fund .....		.DE.....	.NIA.....	C.M. Life Insurance Company	Ownership.....	0.400	MMLIC		
.0000						Barings Middle Market CLO 2017-I Ltd & LLC .....		.CYM.....	.NIA.....	Barings LLC	Influence.....		MMLIC		
.0000						Barings Middle Market CLO 2018-I .....		.CYM.....	.NIA.....	Barings LLC	Influence.....		MMLIC		
.0000						Barings Middle Market CLO 2019-I .....		.CYM.....	.NIA.....	Barings LLC	Influence.....		MMLIC		
.0000		98-1612604				Barings Middle Market CLO Ltd 2021-I .....		.CYM.....	.NIA.....	Barings LLC	Influence.....		MMLIC		
.0000		98-1332384				Barings RE Credit Strategies VII LP .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	34.400	MMLIC		
.0000		98-1332384				Barings RE Credit Strategies VII LP .....		.DE.....	.NIA.....	Baring Asset Management Limited	Management.....		MMLIC		
.0000		98-1567942				Barings Target Yield Infrastructure Debt Fund .....		.LUX.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	18.200	MMLIC		
.0000		98-1567942				Barings Target Yield Infrastructure Debt Fund .....		.LUX.....	.NIA.....	Baring Asset Management Limited	Management.....		MMLIC		
.0000		81-0841854				Barings CLO Investment Partners LP .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	99.200	MMLIC		
.0000		81-0841854				Barings CLO Investment Partners LP .....		.DE.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000						Barings Euro Value Add II (BREEVA II) .....		.LUX.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	32.200	MMLIC		
.0000						Barings Euro Value Add II (BREEVA II) .....		.LUX.....	.NIA.....	C.M. Life Insurance Company	Ownership.....	2.800	MMLIC		
.0000						Barings Euro Value Add II (BREEVA II) .....		.LUX.....	.NIA.....	Barings LLC	Management.....		MMLIC		
.0000		87-1262754				Barings Transportation Fund LP .....		.DE.....	.NIA.....	MassMutual Holding LLC	Ownership/Influence	11.300	MMLIC		
.0000		87-1262754				Barings Transportation Fund LP .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	8.100	MMLIC		
.0000						Braemar Energy Ventures I, L.P. .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	87.700	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	7.300	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.....		MMLIC		
.0000		46-5001122				Barings European Private Loan Fund III A .....		.LUX.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	46.400	MMLIC		
.0000		38-4059932				Benchmark 2018-B2 Mortgage TrustNY.....	.NIA.....	Barings LLC	Influence.....		MMLIC		

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.0000			38-4096530			Benchmark 2018-B4		.NY.	.NIA.	Barings LLC	Influence.		MMLIC		
.0000			20-5578089			Benchmark 2018-B8		.NY.	.NIA.	Barings LLC	Influence.		MMLIC		
.0000			20-5578089			Barings Core Property Fund LP		.DE.	.NIA.	MassMutual Holding LLC	Ownership/Influence	.23.500	MMLIC		
.0000						Barings Core Property Fund LP		.DE.	.NIA.	Barings Real Estate Advisers LLC	Management.		MMLIC		
.0000		04-1590850				DPI Acres Capital SPV LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.100.000	MMLIC		
.0000		90-0991195			0001597511	Gateway Mezzanine Partners II LP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.34.300	MMLIC		
.0000		90-0991195			0001597511	Gateway Mezzanine Partners II LP		.DE.	.NIA.	C.M. Life Insurance Company	Ownership.	.5.100	MMLIC		
.0000		90-0991195			0001597511	Gateway Mezzanine Partners II LP		.DE.	.NIA.	Barings LLC	Management.		MMLIC		
.0000		37-1708623				Great Lakes III, L.P.		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.41.500	MMLIC		
.0000		37-1708623				Great Lakes III, L.P.		.DE.	.NIA.	Barings LLC	Management.		MMLIC		
.0000						GIA EU Holdings - Emerson JV Sarl		.LUX.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.65.200	MMLIC		
.0000						GIA EU Holdings - Emerson JV Sarl		.LUX.	.NIA.	Barings LLC	Management.		MMLIC		
.0000		38-4041011				JPMCC Commercial Mortgage Securities Trust 2017-JP7		.NY.	.NIA.	Barings LLC	Influence.		MMLIC		
.0000		38-4032059				JPMDB Commercial Mortgage Securities Trust 2017-CS		.NY.	.NIA.	Barings LLC	Influence.		MMLIC		
.0000						Martello Re Limited		.BMU.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.0.275	MMLIC		
.0000		04-1590850				MM Direct Private Investment Holding		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.100.000	MMLIC		
.0000						MM CM Holding LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.100.000	MMLIC		
.0000		04-1590850				MMV Climate Technology Fund GP		.DE.	.NIA.	Massachusetts Mutual Ascend	Ownership.	.99.000	MMLIC		
.0000		04-1590850				MMV Climate Technology Fund GP		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.1.000	MMLIC		
.0000		04-1590850				Washington Pine LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.100.000	MMLIC		
.0000		20-8856877				Somerset Special Opportunities Fund L.P.		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.0.000	MMLIC		
.0000		20-8856877				Somerset Special Opportunities Fund L.P.		.DE.	.NIA.	C.M. Life Insurance Company	Ownership.	.4.524	MMLIC		
.0000		41-2280127				Tower Square Capital Partners III, L.P.		.DE.	.NIA.	Barings LLC	Management.		MMLIC		
.0000		41-2280127				Tower Square Capital Partners III, L.P.		.DE.	.NIA.	MassMutual Holding LLC	Ownership/Influence	.16.400	MMLIC		
.0000		41-2280129				Tower Square Capital Partners IIIA, L.P.		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.93.700	MMLIC		
.0000		41-2280129				Tower Square Capital Partners IIIA, L.P.		.DE.	.NIA.	Barings LLC	Management.		MMLIC		
.0000						Babson Capital Loan Strategies Master Fund LP		.CYM.	.NIA.	Barings LLC	Management.		MMLIC		
.0000						Barings China Aggregate Bond Private Securities Investment Fund		.CHN.	.NIA.	Barings LLC	Management.		MMLIC		
.0000			47-3790192			Barings European Growth Trust Fund		.GBR.	.NIA.	Barings LLC	Ownership/Influence	.14.280	MMLIC		
.0000						Barings Global High Yield Fund		.MA.	.NIA.	Barings LLC	Management.		MMLIC		
.0000						CCIC Fund		.CHN.	.NIA.	Barings LLC	Ownership/Influence	.67.310	MMLIC		
.0000			71-1018134			Great Lakes II LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.10.600	MMLIC		
.0000			71-1018134			Great Lakes II LLC		.DE.	.NIA.	C.M. Life Insurance Company	Ownership.	.98.000	MMLIC		
.0000		04-1590850				Wood Creek Venture Fund LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.	.40.000	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- iliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						Barings California Mortgage Fund IV .....		.CA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000						Barings Umbrella Fund LUX SCSp SICAV RAIF .....		.LUX.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	24.959	MMLIC		
.0000						Barings Umbrella Fund LUX SCSp SICAV RAIF .....		.LUX.....	.NIA.....	C.M. Life Insurance Company	Ownership.....	2.300	MMLIC		
.0000		95-4207717				Cornerstone California Mortgage Fund I LLC .....		.CA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000		95-4207717				Cornerstone California Mortgage Fund II LLC .....		.CA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000		95-4207717				Cornerstone California Mortgage Fund III LLC .....		.CA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000		82-2783393				Danville Riverwalk Venture, LLC .....		.DE.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	94.400	MMLIC		
.0000		13-1935920				MMLIC Debt Participations LLC .....		.DE.....	.NIA.....	Massachusetts Mutual Ascend	Ownership.....	100.000	MMLIC		
.0000						Salomon Brothers Commercial Mortgage Trust 2001-MM .....		.DE.....	.NIA.....	Barings Real Estate Advisers LLC	Influence.....		MMLIC		
.0000		51-0529328			0000927972 .. 0Q	MassMutual Premier Main Street Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	89.268	MMLIC		
.0000		26-3229251			0000927972 .. 0Q	MassMutual Premier Strategic Emerging Markets Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	26.209	MMLIC		
.0000		04-3512593			0000916053 .. 0Q	MassMutual Select Fundamental Growth Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	5.020	MMLIC		
.0000		42-1710935			0000916053 .. 0Q	MassMutual Select Mid-Cap Value Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	29.852	MMLIC		
.0000		02-0769954			0000916053 .. 0Q	MassMutual Select Small Capital Value Equity Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		04-3584140			0000916053 .. 0Q	MassMutual Select Small Company Value Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	18.131	MMLIC		
.0000		82-3347422			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2005 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	5.479	MMLIC		
.0000		82-3355639			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2010 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3382389			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2015 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3396442			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2020 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3417420			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2025 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3430358			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2030 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3439637			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2035 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3451779			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2040 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3472295			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2045 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3481715			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2050 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3502011			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2055 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		
.0000		82-3525148			0000916053 .. 0Q	MassMutual Select T. Rowe Price Retirement 2060 Fund .....		.MA.....	.NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC		

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- iliary Loca- tion	10 Rela- tion- ship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000		82-3533944		0000916053 ..	00	MassMutual Select T. Rowe Price Retirement Balanced Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	0.000	MMLIC				
.0000		46-4257056				MML Series International Equity Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance 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				
.0000		47-3544629				MML Series II Equity Rotation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	96.276	MMLIC				
.0000		27-1933389		0000916053 ..	00	MassMutual RetireSMART 2035 Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	3.623	MMLIC				
.0000		27-1932769		0000916053 ..	00	MassMutual RetireSMART 2045 Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	8.258	MMLIC				
.0000		46-3289207		0000916053 ..	00	MassMutual RetireSMART 2055 Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	24.163	MMLIC				
.0000		47-5326235		0000916053 ..	00	MassMutual RetireSMART 2060 Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	41.109	MMLIC				
.0000		45-1618155		0000916053 ..	00	MassMutual 20/80 Allocation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	100.000	MMLIC				
.0000		45-1618222		0000916053 ..	00	MassMutual 80/20 Allocation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	41.495	MMLIC				
.0000		03-0532464		0000916053 ..	00	MassMutual RetireSMART In Retirement Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	8.832	MMLIC				
.0000		45-1618262		0000916053 ..	00	MassMutual 40/60 Allocation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	100.000	MMLIC				
.0000		45-1618046		0000916053 ..	00	MassMutual 60/40 Allocation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		45-1618046		0000916053 ..	00	MassMutual iShares 60/40 Allocation Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	68.903	MMLIC				
.0000		04-3212054		0000916053 ..	00	MassMutual Balanced Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3556992		0000916053 ..	00	MassMutual Blue Chip Growth Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3277549		0000916053 ..	00	MassMutual Core Bond Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3539084		0000916053 ..	00	MassMutual Disciplined Growth Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3539083		0000916053 ..	00	MassMutual Disciplined Value Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		01-0821120		0000916053 ..	00	MassMutual Diversified Value Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3512590		0000916053 ..	00	MassMutual Equity Opportunities Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3512589		0000916053 ..	00	MassMutual Growth Opportunities Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		03-0532475		0000916053 ..	00	MassMutual Inflation-Protected and Income Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3512596		0000916053 ..	00	MassMutual Mid Cap Growth Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		04-3464165		0000916053 ..	00	MassMutual Premier Diversified Bond Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				
.0000		92-1441036		0000916053 ..	00	MassMutual RetireSMART by JPMorgan 2065 Fund .....	.. MA..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC				

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000		45-1618222		0000916053 ..	00	MassMutual Select 80/20 Allocation Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		04-3584138		0000916053 ..	00	MassMutual Select Fundamental Value Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		04-3557000		0000916053 ..	00	MassMutual Select Overseas Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		92-1427882		0000916053 ..	00	MassMutual Select T Rowe Price Retirement 2065 Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	83.170 ..	MMLIC			
.0000		04-3464205		0000916053 ..	00	MassMutual Small Cap Growth Equity Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		04-3424705		0000916053 ..	00	MassMutual Small Cap Opportunities Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		02-0769954		0000916053 ..	00	MassMutual Small Cap Value Equity Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			
.0000		26-0099965		0000916053 ..	00	MassMutual Strategic Bond Fund MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ..	MMLIC			

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

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
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.

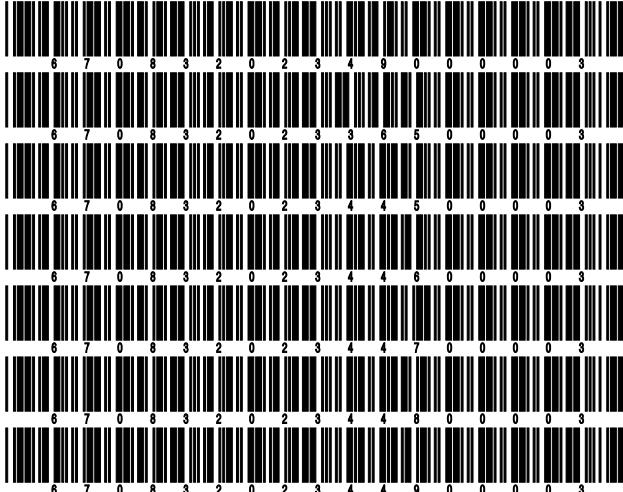
	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	NO
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3. Will the Reasonableness of Assumptions Certification required 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.
4. The data for this supplement is not required to be filed.
5. The data for this supplement is not required to be filed.
6. The data for this supplement is not required to be filed.
7. The data for this supplement is not required to be filed.

Bar Code:

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



STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY
OVERFLOW PAGE FOR WRITE-INS

NONE

SCHEDULE A - VERIFICATION

Real Estate

	1 Year to Date	2 Prior Year Ended 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 carrying value		
7. Deduct current year's other than temporary impairment recognized		
8. Deduct current year's depreciation		
9. Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)		
10. Deduct total nonadmitted amounts		
11. Statement value at end of current period (Line 9 minus Line 10)		

NONE**SCHEDULE B - VERIFICATION**

Mortgage Loans

	1 Year to Date	2 Prior Year Ended 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 interest paid and commitment fees		
9. Total foreign exchange change in book value/recorded investment excluding accrued interest		
10. Deduct current year's other than temporary impairment recognized		
11. Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)		
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)		

NONE**SCHEDULE BA - VERIFICATION**

Other Long-Term Invested Assets

	1 Year to Date	2 Prior Year Ended 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)		

NONE**SCHEDULE D - VERIFICATION**

Bonds and Stocks

	1 Year to Date	2 Prior Year Ended 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	16,875,068	14,016,958
3. Accrual of discount	310,139	397,796
4. Unrealized valuation increase (decrease)	0	46,833
5. Total gain (loss) on disposals	(676,819)	(2,359)
6. Deduct consideration for bonds and stocks disposed of	10,339,944	8,831,270
7. Deduct amortization of premium	91,059	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)	117,977,260	111,899,875
12. Deduct total nonadmitted amounts	0	0
13. Statement value at end of current period (Line 11 minus Line 12)	117,977,260	111,899,875

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

NAIC Designation	1 Book/Adjusted Carrying Value Beginning of Current Quarter	2 Acquisitions During Current Quarter	3 Dispositions During Current Quarter	4 Non-Trading Activity During Current Quarter	5 Book/Adjusted Carrying Value End of First Quarter	6 Book/Adjusted Carrying Value End of Second Quarter	7 Book/Adjusted Carrying Value End of Third Quarter	8 Book/Adjusted Carrying Value December 31 Prior Year
BONDS								
1. NAIC 1 (a)	61,174,689	8,463,127	9,282,551	715,313	62,639,677	61,174,689	61,070,578	53,858,078
2. NAIC 2 (a)	56,259,968	30,894,444	30,000,000	(627,727)	52,101,414	56,259,968	56,526,685	58,290,239
3. NAIC 3 (a)	0	0	0	0	154,811	0	0	934,102
4. NAIC 4 (a)	1,574,840	0	0	748	1,476,094	1,574,840	1,575,588	1,475,363
5. NAIC 5 (a)	359,539	0	752	6,007	452,039	359,539	364,794	2,426,970
6. NAIC 6 (a)	1,996,243	0	0	0	974,784	1,996,243	1,996,243	
7. Total Bonds	121,365,279	39,357,571	39,283,303	94,341	117,798,819	121,365,279	121,533,888	116,984,752
PREFERRED STOCK								
8. NAIC 1	0	0	0	0	0	0	0	0
9. NAIC 2	0	0	0	0	0	0	0	0
10. NAIC 3	0	0	0	0	0	0	0	0
11. NAIC 4	0	0	0	0	0	0	0	0
12. NAIC 5	0	0	0	0	0	0	0	0
13. NAIC 6	0	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	121,365,279	39,357,571	39,283,303	94,341	117,798,819	121,365,279	121,533,888	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:

NAIC 1 \$ 3,058,427 ; NAIC 2 \$ 498,201 ; NAIC 3 \$ 0 NAIC 4 \$ 0 ; NAIC 5 \$ 0 ; NAIC 6 \$ 0

Schedule DA - Part 1 - Short-Term Investments

N O N E

Schedule DA - Verification - Short-Term Investments

N O N E

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

N O N E

Schedule DB - Part B - Verification - Futures Contracts

N O N E

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open

N O N E

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open

N O N E

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

N O N E

SCHEDULE E - PART 2 - VERIFICATION

(Cash Equivalents)

	1 Year To Date	2 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	140,567,002	135,192,274
3. Accrual of discount	55,612	0
4. Unrealized valuation increase (decrease)	4,977	0
5. Total gain (loss) on disposals	451	(36)
6. Deduct consideration received on disposals	149,588,339	144,132,229
7. Deduct amortization of premium	0	0
8. Total foreign exchange change in book/adjusted carrying value	0	0
9. Deduct current year's other than temporary impairment recognized	0	0
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	3,556,627	12,521,902
11. Deduct total nonadmitted amounts	0	0
12. Statement value at end of current period (Line 10 minus Line 11)	3,556,627	12,521,902

Schedule A - Part 2 - Real Estate Acquired and Additions Made
N O N E

Schedule A - Part 3 - Real Estate Disposed
N O N E

Schedule B - Part 2 - Mortgage Loans Acquired and Additions Made
N O N E

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

Schedule BA - Part 2 - Other Long-Term Invested Assets Acquired and Additions Made
N O N E

Schedule BA - Part 3 - Other Long-Term Invested Assets Disposed, Transferred or Repaid
N O N E

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

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

1 CUSIP Identification	2 Description	3 Foreign	4 Date Acquired	5 Name of Vendor	6 Number of Shares of Stock	7 Actual Cost	8 Par Value	9 Paid for Accrued Interest and Dividends	10 NAIC Designation, NAIC Designation Modifier and SVO Adminis- trative Symbol
19828A-AB-3	CPGX 6.042 08/15/28-SENIOR UNSECURED		08/21/2023	BARCLAYS CAPITAL INC	997,700	1,000,000		2,518	2.B FE
49271V-AP-5	Keurig Dr Pepper Inc-SENIOR UNSECURED		08/21/2023	KEY CAPITAL MARKETS	465,240	500,000		7,022	2.B FE
709599-BW-3	Penske Truck Leasing Co -SENIOR UNSECURE		08/21/2023	MARKETAXESS FINANCIA	496,115	500,000		1,849	2.B FE
94106L-BV-0	Waste Management Inc-SENIOR UNSECURED		08/21/2023	MARKETAXESS FINANCIA	539,187	550,000		1,490	1.G FE
98138H-AH-4	Workday Inc-SENIOR UNSECURED		08/21/2023	MILLENNIUM ADVISORS	456,320	500,000		7,297	2.B FE
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)					2,954,562	3,050,000		20,176	XXX
2509999997. Total - Bonds - Part 3					2,954,562	3,050,000		20,176	XXX
2509999998. Total - Bonds - Part 5					XXX	XXX	XXX	XXX	XXX
2509999999. Total - Bonds					2,954,562	3,050,000		20,176	XXX
4509999997. Total - Preferred Stocks - Part 3					0	XXX		0	XXX
4509999998. Total - Preferred Stocks - Part 5					XXX	XXX	XXX	XXX	XXX
4509999999. Total - Preferred Stocks					0	XXX		0	XXX
5989999997. Total - Common Stocks - Part 3					0	XXX		0	XXX
5989999998. Total - Common Stocks - Part 5					XXX	XXX	XXX	XXX	XXX
5989999999. Total - Common Stocks					0	XXX		0	XXX
5999999999. Total - Preferred and Common Stocks					0	XXX		0	XXX
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6009999999 - Totals					2,954,562	XXX		20,176	XXX

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE D - PART 4

Show All Long-Term Bonds and Stock Sold, Redeemed or Otherwise Disposed of During the Current Quarter

1 CUSIP Ident- ification	2 Description	For- eign	Disposal Date	5 Name of Purchaser	6 Number of Shares of Stock	7 Consid- eration	8 Par Value	9 Actual Cost	10 Prior Year Book/ Adjusted Carrying Value	Change In Book/Adjusted Carrying Value					16 Book/ Adjusted Carrying Value at Disposal Date	17 Foreign Exchange Gain (Loss) on Disposal	18 Realized Gain (Loss) on Disposal	19 Total Gain (Loss) on Disposal	20 Bond Interest/ Stock Dividends Received During Year	21 Stated Con- tractual Maturity Date	22 NAIC Design- nation, NAIC Design- nation Modifier and SVO Adminis- trative Symbol				
										11 Unrealized Valuation Increase/ Decrease)	12 Current Year's (Amor- tization)/ Accretion	13 Other Than Temporary Impairment Recogn- ized	14 Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	15 Total Foreign Exchange Change in Book/ Adjusted Carrying Value											
..36207H-WH-7	Ginnie Mae I Pool-POOL #432716	.....	09/01/2023	PAYDOWN .....	.....	101	.....	101	.....	0	1	0	1	0	.....	101	.....	0	0	0	5	06/01/2026	1.A	
..36208C-Y9-2	Ginnie Mae I Pool-POOL #447236	.....	09/01/2023	PAYDOWN .....	.....	34	.....	34	.....	35	34	0	0	0	.....	0	.....	34	0	0	0	2	06/01/2027	1.A
0109999999. Subtotal - Bonds - U.S. Governments					.....	135	.....	135	.....	137	134	0	1	0	1	0	135	0	0	0	0	7	XXX	XXX
..31287P-08-3	Freddie Mac Gold Pool-FG C63727	.....	09/01/2023	PAYDOWN .....	.....	87	.....	87	.....	86	82	0	5	0	5	0	.....	87	0	0	0	3	02/01/2032	1.A
..31287S-6R-3	Freddie Mac Gold Pool-FG C67180	.....	09/01/2023	PAYDOWN .....	.....	92	.....	92	.....	93	89	0	2	0	2	0	.....	92	0	0	0	4	05/01/2032	1.A
..31287S-FS-1	Freddie Mac Gold Pool-FG C66477	.....	09/01/2023	PAYDOWN .....	.....	124	.....	124	.....	125	119	0	5	0	5	0	.....	124	0	0	0	5	04/01/2032	1.A
..31287T-0K-5	Freddie Mac Gold Pool-FG C67402	.....	09/01/2023	PAYDOWN .....	.....	36	.....	36	.....	36	34	0	2	0	2	0	.....	36	0	0	0	1	05/01/2032	1.A
..31287U-EQ-1	Freddie Mac Gold Pool-FG C68243	.....	09/01/2023	PAYDOWN .....	.....	49	.....	49	.....	49	23	0	25	0	25	0	.....	49	0	0	0	2	06/01/2032	1.A
..31288H-7A-2	Freddie Mac Gold Pool-FG C78999	.....	09/01/2023	PAYDOWN .....	.....	381	.....	381	.....	391	315	0	66	0	66	0	.....	381	0	0	0	14	05/01/2033	1.A
..31292G-5V-4	Freddie Mac Gold Pool-FG C00860	.....	09/01/2023	PAYDOWN .....	.....	488	.....	488	.....	492	431	0	58	0	58	0	.....	488	0	0	0	25	09/01/2029	1.A
..31292H-NH-3	Freddie Mac Gold Pool-FG C01292	.....	09/01/2023	PAYDOWN .....	.....	890	.....	890	.....	893	704	0	186	0	186	0	.....	890	0	0	0	36	02/01/2032	1.A
..31292H-QN-7	Freddie Mac Gold Pool-FG C01361	.....	09/01/2023	PAYDOWN .....	.....	267	.....	267	.....	269	252	0	15	0	15	0	.....	267	0	0	0	10	05/01/2032	1.A
..313398-FC-8	Freddie Mac REMICS-FHR 2333 UZ	.....	09/01/2023	PAYDOWN .....	.....	561	.....	561	.....	540	648	0	(86)	0	(86)	0	.....	561	0	0	0	24	07/01/2031	1.A
..3133T1-RX-1	Freddie Mac REMICS-FHR 2329 ZA	.....	09/01/2023	PAYDOWN .....	.....	4,486	.....	4,486	.....	4,262	4,987	0	(501)	0	(501)	0	.....	4,486	0	0	0	192	06/01/2031	1.A
..3133TV-EW-2	Freddie Mac REMICS-FHR 2355 CE	.....	09/01/2023	PAYDOWN .....	.....	398	.....	398	.....	393	394	0	4	0	4	0	.....	398	0	0	0	17	09/01/2031	1.A
..313920-CW-8	Fannie Mae REMICS-FNR 2001-31 ZC	.....	09/01/2023	PAYDOWN .....	.....	2,541	.....	2,541	.....	2,550	2,766	0	(225)	0	(225)	0	.....	2,541	0	0	0	110	07/01/2031	1.A
..690353-RX-7	United States Internatio-UNSECURED	.....	08/27/2023	SINKING PAYMENT	.....	72,906	.....	72,906	.....	72,906	72,914	0	(8)	0	(8)	0	.....	72,906	0	0	0	3,237	02/27/2027	1.A
..724795-AB-5	PITTSBURGH & ALLEGHENY CNTY PA SPORTS &	.....	07/01/2023	CALL 100 .....	.....	100,000	.....	100,000	.....	107,110	103,244	0	(15)	0	(15)	0	.....	103,230	0	0	(3,230)	7,920	07/01/2030	1.D
..92812U-03-5	Virginia Housing Develop-REVENUE BONDS	.....	09/25/2023	CALL 100 .....	.....	13,956	.....	13,956	.....	13,930	13,930	0	1	0	1	0	.....	13,930	0	0	26	444	12/25/2043	1.A FE
0909999999. Subtotal - Bonds - U.S. Special Revenues					197,262	197,262	204,151	200,932	0	(466)	0	(466)	0	200,466	0	0	(3,204)	(3,204)	12,044	XXX	XXX
..02665U-AA-3	AMERICAN HOMES 4 RENT-SERIES 2014-SFR2 C	.....	09/01/2023	PAYDOWN .....	.....	2,203	.....	2,203	.....	2,265	2,214	0	(11)	0	(11)	0	.....	2,203	0	0	0	56	10/01/2036	1.A FE
..05949T-AX-7	Banc of America Funding -BAFC 2006-1 1A2	.....	09/01/2023	PAYDOWN .....	.....	14,974	.....	14,974	.....	14,644	14,825	0	149	0	149	0	.....	14,974	0	0	0	639	01/01/2036	1.A FM
..12667F-EG-6	Alternative Loan Trust 2-CWALT 2004-J2 3	.....	09/01/2023	PAYDOWN .....	.....	7,285	.....	7,285	.....	7,166	7,256	0	29	0	29	0	.....	7,285	0	0	0	339	04/01/2034	1.A FM
..126694-LC-0	CHL Mortgage Pass-Through-CIHL 2005-24 A3	.....	09/01/2023	PAYDOWN .....	.....	752	.....	753	.....	695	696	0	58	0	58	0	.....	752	0	0	0	35	11/01/2035	5.B FM
..16165Y-AV-4	ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F	.....	09/01/2023	PAYDOWN .....	.....	3,588	.....	3,264	.....	2,833	2,144	0	1,181	0	1,181	0	.....	3,588	0	0	0	84	08/01/2037	1.A FM
..46617F-AA-2	JGNIPT XVIII LLC-HENDR 2013-1A A	.....	09/15/2023	PAYDOWN .....	.....	6,104	.....	6,104	.....	6,099	6,099	0	5	0	5	0	.....	6,104	0	0	0	131	09/15/2067	1.A FE
..650119-AA-8	New York University-UNSECURED	.....	07/01/2023	CALL 100 .....	.....	51,000	.....	49,737	.....	50,322	0	(6)	0	(6)	0	.....	50,316	0	684	684	2,670	07/01/2032	1.D FE	
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)					.....	85,906	.....	85,583	.....	83,439	83,556	0	1,405	0	1,405	0	.....	85,222	0	684	684	3,954	XXX	XXX
2509999997. Total - Bonds - Part 4					.....	283,303	.....	282,980	.....	287,727	284,622	0	940	0	940	0	.....	285,823	0	(2,520)	(2,520)	16,005	XXX	XXX
2509999998. Total - Bonds - Part 5					.....	XXX	.....	XXX	.....	XXX	XXX	0	0	0	0	0	.....	XXX	0	XXX	XXX	XXX	XXX	XXX
4509999997. Total - Preferred Stocks - Part 4					.....	283,303	.....	282,980	.....	287,727	284,622	0	940	0	940	0	.....	285,823	0	(2,520)	(2,520)	16,005	XXX	XXX
4509999998. Total - Preferred Stocks - Part 5					.....	XXX	.....	XXX	.....	XXX	XXX	0	0	0	0	0	.....	XXX	0	XXX	XXX	XXX	XXX	XXX
4509999999. Total - Preferred Stocks					.....	0	.....	XXX	.....	0	0	0	0	0	0	0	.....	0	0	0	0	0	XXX	XXX
5989999997. Total - Common Stocks - Part 4					.....	0	.....	XXX	.....	0	0	0	0	0	0	0	.....	0	0	0	0	0	XXX	XXX
5989999998. Total - Common Stocks - Part 5					.....	XXX	.....	XXX	.....	XXX	XXX	0	0	0	0	0	.....	XXX	0	XXX	XXX	XXX	XXX	XXX
5989999999. Total - Common Stocks					.....	0	.....	XXX	.....	0	0	0	0	0	0	0	.....	0	0	0	0	0	XXX	XXX
5999999999. Total - Preferred and Common Stocks					.....	0	.....	XXX	.....	287,727	284,622	0	940	0	940	0	.....	285,823	0	(2,520)	(2,520)	16,005	XXX	XXX
6009999999 - Totals					.....	283,303	.....	XXX	.....	287,727	284,622	0	940	0	940	0	.....	285,823	0	(2,520)	(2,520)	16,005	XXX	XXX

Schedule DB - Part A - Section 1 - Options, Caps, Floors, Collars, Swaps and Forwards Open
N O N E

Schedule DB - Part B - Section 1 - Futures Contracts Open
N O N E

Schedule DB - Part B - Section 1B - Brokers with whom cash deposits have been made
N O N E

Schedule DB - Part D - Section 1 - Counterparty Exposure for Derivative Instruments Open
N O N E

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

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

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

Schedule DL - Part 1 - Reinvested Collateral Assets Owned
N O N E

Schedule DL - Part 2 - Reinvested Collateral Assets Owned
N O N E

SCHEDULE E - PART 1 - CASH

Month End Depository Balances

1 Depository	2 Code	3 Rate of Interest	4 Amount of Interest Received During Current Quarter	5 Amount of Interest Accrued at Current Statement Date	Book Balance at End of Each Month During Current Quarter			9 *
					6 First Month	7 Second Month	8 Third Month	
Bank of New York Mellon	New York, NY				1,336,586	2,766,771	1,409,488	XXX.
PNC Bank	Pittsburgh, PA				124,800	409,527	669,413	XXX.
Wells Fargo	Winston Salem, NC				60,181	60,687	61,095	XXX.
0199998. Deposits in ...	depositories that do not exceed the allowable limit in any one depository (See instructions) - Open Depositories	XXX	XXX					XXX
0199999. Totals - Open Depositories		XXX	XXX	0	0	1,521,567	3,236,985	2,139,996
0299998. Deposits in ...	depositories that do not 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
0399999. Total Cash on Deposit		XXX	XXX	0	0	1,521,567	3,236,985	2,139,996
0499999. Cash in Company's Office		XXX	XXX	XXX	XXX			XXX
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.....
0599999. Total - Cash		XXX	XXX	0	0	1,521,567	3,236,985	2,139,996

STATEMENT AS OF SEPTEMBER 30, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE E - PART 2 - CASH EQUIVALENTS

Show Investments Owned End of Current Quarter