



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

QUARTERLY STATEMENT

AS OF MARCH 31, 2023

OF THE CONDITION AND AFFAIRS OF THE

MANHATTAN NATIONAL LIFE INSURANCE COMPANY

NAIC Group Code 0435 (Current) 0435 (Prior) NAIC Company Code 67083 Employer's ID Number 45-0252531

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 [X] Fraternal Benefit Societies []

Incorporated/Organized 12/20/1956 Commenced Business 01/04/1957

Statutory Home Office 191 Rosa Parks Street (Street and Number), Cincinnati, OH, US 45202 (City or Town, State, Country and Zip Code)

Main Administrative Office 191 Rosa Parks Street (Street and Number), Cincinnati, OH, US 45202 (City or Town, State, Country and Zip Code), 513-361-9000 (Area Code) (Telephone Number)

Mail Address Post Office Box 5420 (Street and Number or P.O. Box), Cincinnati, OH, US 45201 (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 (City or Town, State, Country and Zip Code), 513-361-9000 (Area Code) (Telephone Number)

Internet Website Address www.massmutualascend.com

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

OFFICERS

President Mark Francis Muething

Treasurer Brian Patrick Sponaugle

Secretary John Paul Gruber

Appointed Actuary Dominic Joseph Mosler

OTHER

Donna Marie Carrelli

Michael Robert Fanning

DIRECTORS OR TRUSTEES

Dominic Lusean Blue

Elizabeth Ward Chicares

Susan Marie Cicco

Geoffrey James Craddock

Roger William Crandall

Michael Robert Fanning

Paul Anthony Lapiana

Sears Andrew Merritt

Mark Francis Muething

Michael James O'Connor

Eric William Partlan

Arthur William Wallace III

State of Ohio

County of Hamilton

SS:

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 May 2023

a. Is this an original filing? Yes [X] No []

b. If no,

1. State the amendment number.....

2. Date filed

3. Number of pages attached.....

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

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	109,362,208		109,362,208	111,899,872
2. Stocks:				
2.1 Preferred stocks			0	0
2.2 Common stocks			0	0
3. Mortgage loans on real estate:				
3.1 First liens			0	0
3.2 Other than first liens.....			0	0
4. Real estate:				
4.1 Properties occupied by the company (less \$ encumbrances)			0	0
4.2 Properties held for the production of income (less \$ encumbrances)			0	0
4.3 Properties held for sale (less \$ encumbrances)			0	0
5. Cash (\$ 6,333,639), cash equivalents (\$ 8,436,607) and short-term investments (\$ 0)	14,770,246		14,770,246	14,534,897
6. Contract loans (including \$ premium notes)	4,359,370		4,359,370	4,408,517
7. Derivatives			0	0
8. Other invested assets			0	0
9. Receivables for securities	34,288	34,288	0	0
10. Securities lending reinvested collateral assets			0	0
11. Aggregate write-ins for invested assets	0	0	0	0
12. Subtotals, cash and invested assets (Lines 1 to 11)	128,526,112	34,288	128,491,824	130,843,286
13. Title plants less \$ charged off (for Title insurers only)			0	
14. Investment income due and accrued	950,309		950,309	1,420,376
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	127,759	11,865	115,894	164,846
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	3,149,208	18,062	3,131,146	3,174,410
15.3 Accrued retrospective premiums (\$) and contracts subject to redetermination (\$)			0	0
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	848,492		848,492	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	128,609		128,609	0
18.2 Net deferred tax asset			0	0
19. Guaranty funds receivable or on deposit	95,073		95,073	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	20	0	20	784
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	133,825,582	64,215	133,761,367	136,135,431
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts			0	0
28. Total (Lines 26 and 27)	133,825,582	64,215	133,761,367	136,135,431
DETAILS OF WRITE-INS				
1101.				
1102.				
1103.				
1198. Summary of remaining write-ins for Line 11 from overflow page	0	0	0	0
1199. Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0	0	0	0
2501. Miscellaneous receivable	20	0	20	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)	20	0	20	784

STATEMENT AS OF MARCH 31, 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 \$ 58,068,730 less \$ included in Line 6.3 (including \$ Modco Reserve)	58,068,730	58,721,823
2. Aggregate reserve for accident and health contracts (including \$ Modco Reserve)	65,947	64,464
3. Liability for deposit-type contracts (including \$ Modco Reserve).....	2,681,025	2,748,937
4. Contract claims:		
4.1 Life	4,147,497	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	29,941	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 \$ 54,063 ceded	54,063	60,098
9.4 Interest Maintenance Reserve	2,809,671	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		
12. General expenses due or accrued	81,823	81,824
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	349,173	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	34,200	38,775
17. Amounts withheld or retained by reporting entity as agent or trustee	4,913	7,666
18. Amounts held for agents' account, including \$ 448,124 agents' credit balances	448,124	429,926
19. Remittances and items not allocated	1,552,867	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	668,264	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	110,757	0
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance	46,354,678	47,323,547
24.08 Derivatives	0	
24.09 Payable for securities	22,784	0
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	453,391	401,184
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	117,946,848	120,023,437
27. From Separate Accounts Statement		0
28. Total liabilities (Lines 26 and 27)	117,946,848	120,023,437
29. Common capital stock	2,500,000	2,500,000
30. Preferred capital stock		0
31. Aggregate write-ins for other than special surplus funds	0	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)	(119,153,368)	(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)	13,314,519	13,611,994
38. Totals of Lines 29, 30 and 37	15,814,519	16,111,994
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	133,761,367	136,135,431
DETAILS OF WRITE-INS		
2501. Unclaimed funds	453,391	401,184
2502.		
2503.		
2598. Summary of remaining write-ins for Line 25 from overflow page	0	0
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	453,391	401,184
3101.		
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

SUMMARY OF OPERATIONS

	1	2	3
	Current Year To Date	Prior Year To Date	Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	1,201,716	1,234,599	4,835,795
2. Considerations for supplementary contracts with life contingencies			
3. Net investment income	839,013	798,392	3,441,232
4. Amortization of Interest Maintenance Reserve (IMR)	82,245	86,196	344,757
5. Separate Accounts net gain from operations excluding unrealized gains or losses			
6. Commissions and expense allowances on reinsurance ceded	122,775	120,829	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)	2,245,749	2,240,016	9,156,666
10. Death benefits	1,770,850	2,892,855	8,095,271
11. Matured endowments (excluding guaranteed annual pure endowments)	660		146
12. Annuity benefits	403,591	462,084	668,120
13. Disability benefits and benefits under accident and health contracts		2,788	0
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	388,567	388,132	2,514,608
16. Group conversions			0
17. Interest and adjustments on contract or deposit-type contract funds	8,585	12,984	23,268
18. Payments on supplementary contracts with life contingencies			0
19. Increase in aggregate reserves for life and accident and health contracts	(651,610)	(1,576,490)	(3,978,589)
20. Totals (Lines 10 to 19)	1,920,643	2,182,353	7,322,824
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	55,903	52,762	214,151
22. Commissions and expense allowances on reinsurance assumed			0
23. General insurance expenses and fraternal expenses	312,705	358,676	1,315,007
24. Insurance taxes, licenses and fees, excluding federal income taxes	80,697	107,266	474,728
25. Increase in loading on deferred and uncollected premiums	(1,704)	(130)	(183)
26. Net transfers to or (from) Separate Accounts net of reinsurance			
27. Aggregate write-ins for deductions	0	0	506,212
28. Totals (Lines 20 to 27)	2,368,244	2,700,927	9,832,739
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	(122,495)	(460,911)	(676,073)
30. Dividends to policyholders and refunds to members	5,660	6,039	22,697
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(128,155)	(466,950)	(698,770)
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	(83,908)	(127,948)	(333,358)
33. Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	(44,247)	(339,002)	(365,412)
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ (124,661) (excluding taxes of \$ (13,017) transferred to the IMR)	(481,707)	(16)	(9,083)
35. Net income (Line 33 plus Line 34)	(525,954)	(339,018)	(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)	(525,954)	(339,018)	(374,495)
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ 0		(33,798)	36,988
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax	(1)	(22,953)	(2,542,614)
41. Change in nonadmitted assets	5,108	15,641	1,243,604
42. Change in liability for reinsurance in unauthorized and certified companies			
43. Change in reserve on account of change in valuation basis, (increase) or decrease			
44. Change in asset valuation reserve	223,372	8,819	(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	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	0
54. Net change in capital and surplus for the year (Lines 37 through 53)	(297,475)	(371,309)	3,019,336
55. Capital and surplus, as of statement date (Lines 36 + 54)	15,814,519	12,721,349	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	0	0	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)	0	0	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 MARCH 31, 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	1,258,246	1,365,597	5,031,047
2. Net investment income	1,227,305	946,671	3,084,160
3. Miscellaneous income	122,775	120,829	534,882
4. Total (Lines 1 to 3)	2,608,326	2,433,097	8,650,089
5. Benefit and loss related payments	3,425,915	4,745,946	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	490,182	550,304	2,413,036
8. Dividends paid to policyholders	1,791	1,921	6,101
9. Federal and foreign income taxes paid (recovered) net of \$ (137,678) tax on capital gains (losses)	0	0	(562,866)
10. Total (Lines 5 through 9)	3,917,888	5,298,171	13,629,613
11. Net cash from operations (Line 4 minus Line 10)	(1,309,562)	(2,865,074)	(4,979,524)
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	5,830,541	1,252,403	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	22,784	0	0
12.8 Total investment proceeds (Lines 12.1 to 12.7)	5,853,325	1,252,403	8,831,234
13. Cost of investments acquired (long-term only):			
13.1 Bonds	3,884,480	13,825,914	14,016,958
13.2 Stocks	0	0	0
13.3 Mortgage loans	0	0	0
13.4 Real estate	0	0	0
13.5 Other invested assets	0	0	0
13.6 Miscellaneous applications	0	799,438	1,002,961
13.7 Total investments acquired (Lines 13.1 to 13.6)	3,884,480	14,625,352	15,019,919
14. Net increase (or decrease) in contract loans and premium notes	(49,147)	(181,759)	(320,109)
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	2,017,992	(13,191,190)	(5,868,576)
Cash from Financing and Miscellaneous Sources			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes	0	0	0
16.2 Capital and paid in surplus, less treasury stock	0	0	5,000,000
16.3 Borrowed funds	0	0	0
16.4 Net deposits on deposit-type contracts and other insurance liabilities	(80,367)	326,485	1,275,548
16.5 Dividends to stockholders	0	0	0
16.6 Other cash provided (applied)	(392,714)	(1,624,966)	(3,868,471)
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	(473,081)	(1,298,481)	2,407,077
RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17) .	235,349	(17,354,745)	(8,441,023)
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	14,534,897	22,975,920	22,975,920
19.2 End of period (Line 18 plus Line 19.1)	14,770,246	5,621,175	14,534,897

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

20.0001. Bond conversions and refinancing			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	2,779,324	2,825,438	11,470,490
3. Ordinary individual annuities	41,531	28,939	125,989
4. Credit life (group and individual)			0
5. Group life insurance		0	0
6. Group annuities		0	0
7. A & H - group		0	0
8. A & H - credit (group and individual)			0
9. A & H - other	16,808	12,567	69,530
10. Aggregate of all other lines of business	0	0	0
11. Subtotal (Lines 1 through 10)	2,837,663	2,866,944	11,666,009
12. Fraternal (Fraternal Benefit Societies Only)			0
13. Subtotal (Lines 11 through 12)	2,837,663	2,866,944	11,666,009
14. Deposit-type contracts	0	0	0
15. Total (Lines 13 and 14)	2,837,663	2,866,944	11,666,009
DETAILS OF WRITE-INS			
1001.			
1002.			
1003.			
1098. Summary of remaining write-ins for Line 10 from overflow page	0	0	0
1099. Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)	0	0	0

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

B, C & D – No significant changes.

Note 2 - Accounting Changes and Corrections of Errors

Not applicable.

Note 3 - Business Combinations and Goodwill

Not applicable.

Note 4 - Discontinued Operations

Not applicable.

Note 5 - Investments

A, B & C – No significant changes.

D. Loan-Backed Securities

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

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flow s	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 | \$3,558,439 |
| 2. 12 months or longer | 1,678,568 |
- b. The aggregate related fair value of securities with unrealized losses:
- | | |
|------------------------|--------------|
| 1. Less than 12 months | \$56,906,969 |
| 2. 12 months or longer | 25,243,271 |
- (5) Based on cash flow projections received from independent sources (which reflect loan to collateral values, subordination, vintage and geographic concentration), implied cash flows inherent in security ratings and analysis of historical payment data, management believes that the Company will recover its cost basis in all securities with unrealized losses at March 31, 2023. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.

E. Dollar Repurchase Agreements and/or Securities Lending Transactions - Not applicable.

F. Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.

G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.

H. Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.

NOTES TO FINANCIAL STATEMENTS

- I. Reverse Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.
- J. Real Estate – Not applicable.
- K. Low Income Housing Tax Credits – Not applicable.
- L. Restricted Assets – No significant change.
- M. Working Capital Finance Investments – Not applicable.
- N. Offsetting and Netting of Assets and Liabilities – Not applicable.
- O. 5GI Securities – Not applicable.
- P. Short Sales – Not Applicable.
- Q. Prepayment Penalty and Acceleration Fees – Not applicable.
- R. Share of Cash Pool by Asset Type – Not applicable.

Note 6 - Joint Ventures, Partnerships and Limited Liability Companies

Not applicable.

Note 7 - Investment Income

No significant change.

Note 8 - Derivative Instruments

Not applicable.

Note 9 - Income Taxes

No significant change.

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

A.,B. & C.

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

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

- D. The Company reported \$110,757 due to the parent and affiliated companies. The terms of the agreement require that these amounts are settled within 90 days.
- E. Management or service contracts and all cost sharing arrangements including the Company:
 - (1) The Company has an agreement with Barings (an affiliate) which provides investment advisory services to the Company.
 - (2) Certain administrative, management, accounting, data processing, collection, and investment services are provided under agreements between the Company and affiliates at charges not unfavorable to the Company or the affiliate.
- F. The Company has no material guarantees or undertakings for the benefit of an affiliate.
- G. The Company’s outstanding shares are 100% owned by MNH.
- H. The Company does not own shares of any upstream intermediate entity or its ultimate parent.
- I. The Company has no investment in a subsidiary.
- J. The Company did not recognize any impairment or write down for its investments in subsidiary, controlled or affiliated companies during the statement period.
- K. The Company has no investment in a foreign insurance subsidiary.
- L. The Company does not hold an investment in a downstream non-insurance holding company.
- M. Valuation of Subsidiary, Controlled and Affiliated Entities (excluding U.S. Insurance Entities) – Not applicable.
- N. The Company has no investments in insurance subsidiary, controlled, or affiliated entities.
- O. Subsidiary, Controlled, and Affiliated Entities Loss Tracking – Not applicable.

Note 11 - Debt

Not applicable.

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

A., B., C. & D.

The Company did not participate in a defined benefit plan.

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 \$44,291,500 as of March 31, 2023 and \$37,437,537 as of December 31, 2022. The Company matches a percentage of employee contributions to the qualified 401(k) thrift savings plan. The Company's total matching thrift savings contributions included in general insurance expenses were \$8,913 for the three months ended March 31, 2023 and \$32,941 for the year ended December 31, 2022.

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

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

No significant change.

Note 14 - Contingencies

No significant change.

Note 15 - Leases

Not applicable.

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

Not applicable.

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

The Company has no reportable transactions.

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

Not applicable.

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

Not applicable.

Note 20 - Fair Value

- 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 March 31, 2023.

The Company's investment manager, Barings LLC ("Barings") is responsible for the valuation process and uses data from outside sources (including nationally recognized pricing services and broker/dealers) in establishing fair value. Valuation techniques utilized by pricing services and prices obtained from external sources are reviewed by Barings internal investment professionals who are familiar with the securities being priced and the markets in which they trade to ensure the fair value determination is representative of an exit price. To validate the appropriateness of the prices obtained, the investment manager considers widely published indices (as benchmarks), recent trades, changes in interest rates, general economic conditions and the credit quality of the specific issuers. In addition, Barings communicates directly with the pricing service regarding the methods and assumptions used in pricing, including verifying, on a test basis, the inputs used by the service to value specific securities.
 - (5) Derivative Assets and Liabilities – Not applicable.
- B. The Company has no additional fair value disclosures.

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 Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Financial Assets:							
Bonds:							
U.S. government and agencies	\$ 1,546,590	\$ 1,601,931	\$ -	\$ 1,546,590	\$ -	\$ -	\$ -
States, territories and possessions	3,739,850	2,717,930	-	3,739,850	-	-	-
Special revenue	10,519,213	10,306,387	-	10,519,213	-	-	-
Industrial and miscellaneous	90,672,766	94,735,960	-	90,672,766	-	-	-
Total bonds	\$ 106,478,419	\$ 109,362,208	\$ -	\$ 106,478,419	\$ -	\$ -	\$ -
Cash and cash equivalents	14,770,246	14,770,246	14,770,246	-	-	-	-
Policy loans	4,359,370	4,359,370	-	-	4,359,370	-	-
Total financial assets	\$ 125,608,035	\$ 128,491,824	\$ 14,770,246	\$ 106,478,419	\$ 4,359,370	\$ -	\$ -

D. Not Practicable to Estimate Fair Value – The Company has no financial instruments that fall under this classification.

E. NAV Practical Expedient Investments – The Company has no financial investments that fall under this classification.

Note 21 - Other Items

No significant change.

Note 22 - Events Subsequent/Other Items of Note

No significant change.

Note 23 - Reinsurance

No significant change.

Note 24 - Retrospectively Rated Contracts & Contracts Subject to Redetermination

Not applicable.

Note 25 - Change in Incurred Losses and Loss Adjustment Expenses

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

Note 26 - Intercompany Pooling Arrangements

Not applicable.

Note 27 - Structured Settlements

Not applicable.

Note 28 - Health Care Receivables

Not applicable.

Note 29 - Participating Policies

No significant change.

Note 30 - Premium Deficiency Reserves

Not applicable.

Note 31 - Reserves for Life Contracts and Annuity Contracts

No significant change.

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

No significant change.

Note 33 – Analysis of Life Actuarial Reserves by Withdrawal Characteristics

No significant change.

Note 34 - Premiums and Annuity Considerations Deferred and Uncollected

No significant change.

Note 35 - Separate Accounts

Not applicable.

Note 36 - Loss/Claim Adjustment Expenses

Not applicable.

STATEMENT AS OF MARCH 31, 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?
If yes, complete Schedule Y, Parts 1 and 1A.

Yes [X] No []
- 3.2

Have there been any substantial changes in the organizational chart since the prior quarter end?

Yes [] No [X]
- 3.3

If the response to 3.2 is yes, provide a brief description of those 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	2	3
Name of Entity	NAIC Company Code	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?
If yes, attach an explanation.

Yes [] No [X] N/A []
- 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	2	3	4	5	6
Affiliate Name	Location (City, State)	FRB	OCC	FDIC	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 MARCH 31, 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?
(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.

Yes [X] No []

9.11

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

9.2

Has the code of ethics for senior managers been amended?

Yes [] No [X]

9.21

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

9.3

Have any provisions of the code of ethics been waived for any of the specified officers?

Yes [] No [X]

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	\$0
14.28 Total Investment in Parent included in Lines 14.21 to 14.26 above	\$	\$

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 MARCH 31, 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 [X] 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 [X]
- 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
Bar ings 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 [X]

- 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 [X]

- 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	Bar ings 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 [X] 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:
- a. 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.
 - b. Issuer or obligor is current on all contracted interest and principal payments.
 - c. 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 [X]

20. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security:
- a. The security was purchased prior to January 1, 2018.
 - b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
 - c. 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.
 - d. 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 [X]

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:
- a. The shares were purchased prior to January 1, 2019.
 - b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
 - c. 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.
 - d. The fund only or predominantly holds bonds in its portfolio.
 - e. 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.
 - f. 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 [X]

STATEMENT AS OF MARCH 31, 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.

Report the statement value of mortgage loans at the end of this reporting period for the following categories:

1

Amount

1.1

Long-Term Mortgages In Good Standing

1.11

Farm Mortgages

\$

1.12

Residential Mortgages

\$

1.13

Commercial Mortgages

\$

1.14

Total Mortgages in Good Standing

\$

0

1.2

Long-Term Mortgages In Good Standing with Restructured Terms

1.21

Total Mortgages in Good Standing with Restructured Terms

\$

1.3

Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months

1.31

Farm Mortgages

\$

1.32

Residential Mortgages

\$

1.33

Commercial Mortgages

\$

1.34

Total Mortgages with Interest Overdue more than Three Months

\$

0

1.4

Long-Term Mortgage Loans in Process of Foreclosure

1.41

Farm Mortgages

\$

1.42

Residential Mortgages

\$

1.43

Commercial Mortgages

\$

1.44

Total Mortgages in Process of Foreclosure

\$

0

1.5

Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)

\$

0

1.6

Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter

1.61

Farm Mortgages

\$

1.62

Residential Mortgages

\$

1.63

Commercial Mortgages

\$

1.64

Total Mortgages Foreclosed and Transferred to Real Estate

\$

0

2.

Operating Percentages:

2.1

A&H loss percent

82.075

%

2.2

A&H cost containment percent

%

2.3

A&H expense percent excluding cost containment expenses

0.000

%

3.1

Do you act as a custodian for health savings accounts?

Yes

[]

No

[X]

3.2

If yes, please provide the amount of custodial funds held as of the reporting date

\$

3.3

Do you act as an administrator for health savings accounts?

Yes

[]

No

[X]

3.4

If yes, please provide the balance of the funds administered as of the reporting date

\$

4.

Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states?

Yes

[X]

No

[]

4.1

If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity?

Yes

[]

No

[]

Fraternal Benefit Societies Only:

5.1

In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done?

Yes

[]

No

[]

N/A

[]

5.2

If no, explain:

6.1

Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus?

Yes

[]

No

[]

6.2

If yes, what is the date(s) of the original lien and the total outstanding balance of liens that remain in surplus?

Date	Outstanding Lien Amount

SCHEDULE S - CEDED REINSURANCE

Showing All New Reinsurance Treaties - Current Year to Date

[illegible]

STATEMENT AS OF MARCH 31, 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.			1	Direct Business Only					
				Life Contracts		4 Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	5 Other Considerations	6 Total Columns 2 Through 5	7 Deposit-Type Contracts
				2 Life Insurance Premiums	3 Annuity Considerations				
Active Status (a)									
1.	Alabama	AL	L	12,444				12,444	
2.	Alaska	AK	L	2,446				2,446	
3.	Arizona	AZ	L	12,413				12,413	
4.	Arkansas	AR	L	25,665				25,665	
5.	California	CA	L	334,277	355			334,632	
6.	Colorado	CO	L	36,849				36,849	
7.	Connecticut	CT	L	24,215				24,215	
8.	Delaware	DE	L	10,171				10,171	
9.	District of Columbia	DC	L	1,770				1,770	
10.	Florida	FL	L	214,866	361	14,815		230,042	
11.	Georgia	GA	L	77,121	500	203		77,824	
12.	Hawaii	HI	L	10,981				10,981	
13.	Idaho	ID	L	6,514				6,514	
14.	Illinois	IL	L	75,947	4,694			80,641	
15.	Indiana	IN	L	88,881	1,045	101		90,028	
16.	Iowa	IA	L	33,926		84		34,010	
17.	Kansas	KS	L	42,366	543			42,908	
18.	Kentucky	KY	L	26,056				26,056	
19.	Louisiana	LA	L	48,800				48,800	
20.	Maine	ME	L	16,372				16,372	
21.	Maryland	MD	L	116,104				116,104	
22.	Massachusetts	MA	L	61,640				61,640	
23.	Michigan	MI	L	129,468	3,268	143		132,879	
24.	Minnesota	MN	L	157,229	7,150			164,379	
25.	Mississippi	MS	L	40,582	360			40,942	
26.	Missouri	MO	L	82,232	7,207			89,439	
27.	Montana	MT	L	3,746				3,746	
28.	Nebraska	NE	L	10,405				10,405	
29.	Nevada	NV	L	22,810				22,810	
30.	New Hampshire	NH	L	14,848				14,848	
31.	New Jersey	NJ	L	66,426				66,426	
32.	New Mexico	NM	L	9,462		223		9,685	
33.	New York	NY	N	15,100				15,100	
34.	North Carolina	NC	L	66,219				66,219	
35.	North Dakota	ND	L	27,314				27,314	
36.	Ohio	OH	L	65,953	45	43		66,041	
37.	Oklahoma	OK	L	18,757				18,757	
38.	Oregon	OR	L	26,683				26,683	
39.	Pennsylvania	PA	L	93,160		110		93,269	
40.	Rhode Island	RI	L	2,866				2,866	
41.	South Carolina	SC	L	41,113	90			41,203	
42.	South Dakota	SD	L	3,603				3,603	
43.	Tennessee	TN	L	71,572		155		71,727	
44.	Texas	TX	L	174,902	150	135		175,186	
45.	Utah	UT	L	10,885	71			10,956	
46.	Vermont	VT	L	4,891				4,891	
47.	Virginia	VA	L	63,468				63,468	
48.	Washington	WA	L	23,230				23,230	
49.	West Virginia	WV	L	7,354				7,354	
50.	Wisconsin	WI	L	258,777	15,692	603		275,071	
51.	Wyoming	WY	L	6,363				6,363	
52.	American Samoa	AS	N					0	
53.	Guam	GU	N					0	
54.	Puerto Rico	PR	N					0	
55.	U.S. Virgin Islands	VI	N					0	
56.	Northern Mariana Islands	MP	N					0	
57.	Canada	CAN	N					0	
58.	Aggregate Other Aliens	OT	XXX	348	0	0	0	348	0
59.	Subtotal	XXX		2,799,588	41,531	16,614	0	2,857,733	0
90.	Reporting entity contributions for employee benefits plans	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		36,459				36,459	
94.	Aggregate or other amounts not allocable by State.....	XXX		0	0	0	0	0	0
95.	Totals (Direct Business).....	XXX		2,836,047	41,531	16,614	0	2,894,192	0
96.	Plus Reinsurance Assumed.....	XXX						0	
97.	Totals (All Business).....	XXX		2,836,047	41,531	16,614	0	2,894,192	0
98.	Less Reinsurance Ceded	XXX		1,602,806	18,689	15,454		1,636,949	
99.	Totals (All Business) less Reinsurance Ceded	XXX		1,233,241	22,842	1,160	0	1,257,243	0
DETAILS OF WRITE-INS									
58001.	Other Alien	XXX		348				348	
58002.	.....	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		348	0	0	0	348	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 Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV, GP, LLC	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands
JFIN Parent LLC	None		Delaware
Jefferies Finance LLC	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
JFIN Fund III LLC	None		Delaware

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

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</u>
Jefferies Credit Partners LLC	None		Delaware
APEX Credit Partners LLC	None		Delaware
Jefferies Credit Management LLC	None		Delaware
JCP Direct Lending CLO 2022 LLC	None		Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF	None		Luxembourg
Jefferies Credit Management Holdings LLC	None		Delaware
Senior Credit Investments, LLC	None		Delaware
JDLF GP (Europe) S.a.r.l	None		Luxembourg
JFAM GP LLC	None		Delaware
JFAM GP LP	None		Delaware
Jefferies Direct Lending Fund C LP	None		Delaware
Jefferies DLF C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund C SPE LLC	None		Delaware
JDLF II GP LLC	None		Delaware
JDLF II GP LP	None		Delaware
Jefferies Direct Lending Fund II C LP	None		Delaware
Jefferies DLF II C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund II C SPE LLC	None		Delaware
Jefferies Private Credit BDC Inc.	None		Maryland
Jefferies Senior Lending LLC	None		Delaware
Jefferies Credit Partners BDC Inc	None		Maryland
JFIN Revolver Holdings LLC	None		Delaware
JFIN Revolver Holdings II LLC	None		Delaware
JFIN Revolver Holdings IV LLC	None		Delaware
JFIN Co-Issuer Corporation	None		Delaware
JFIN Europe GP, S.a.r.l.	None		Luxembourg
Jefferies Finance Europe, S.L.P.	None		Luxembourg
Jefferies Finance Europe, SCSp	None		Luxembourg
Jefferies Finance Business Credit LLC	None		Delaware
JFIN Business Credit Fund I LLC	None		Delaware
JFIN Funding 2021 LLC	None		Delaware
JFIN High Yield Investments LLC	None		Delaware
JFIN LC Fund LLC	None		Delaware
JFIN Revolver CLO 2017 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-III Ltd.	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

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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
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	None		Cayman Islands
JFIN Revolver Fund, L.P.	None		Delaware
JFIN Revolver Funding 2021 Ltd.	None		Delaware
JFIN Revolver Funding 2021-III Ltd.	None		Delaware
JFIN Revolver Funding 2021-IV Ltd.	None		Delaware
JFIN Revolver Funding 2022-I Ltd.	None		Bermuda
JFIN Revolver SPE1 2022 LLC	None		Delaware
JFIN Revolver SPE3 2022 LLC	None		Delaware
JFIN Revolver SPE4 2022 LLC	None		Delaware
SFL Parkway Funding 2022 LLC	None		Delaware
JCP Private Loan Management GP LLC	None		Delaware
JCP Private Loan Management LP	None		Delaware
Beauty Brands Acquisition Holdings LLC	None		Delaware
Beauty Brands Acquisition LLC	None		Delaware
Beauty Brands Acquisition Intermediate LLC	None		Delaware
Forma Brands, LLC	None		Delaware
Apex Credit Holdings LLC	None		Delaware
JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2013 Ltd.	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands
JFIN CLO 2014-II Ltd.	None		Cayman Islands
JFIN CLO 2015 Ltd.	None		Cayman Islands
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
JFIN CLO 2017 II Ltd.	None		Cayman Islands
Tomorrow Parent, LLC	None		Delaware
Custom Ecology Holdco, LLC	None		Delaware
Glidepath Holdings Inc.	86-2294635		Delaware
MassMutual Ascend Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717		Kentucky
Annuity Investors Life Insurance Company	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

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

12.3

	Federal Tax ID	NAIC Co Code	State of Domicile
MM Direct Private Investments UK Limited	None		United Kingdom
DPI-ACRES Capital LLC	None		Delaware
MM Investment Holding	None		Cayman Islands
MMIH Bond Holdings LLC	None		Delaware
MassMutual Asset Finance LLC*	26-0073611		Delaware
MMAF Equipment Finance LLC 2014-A	36-4785301		Delaware
MMAF Equipment Finance LLC 2017-A	35-2590691		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
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
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		Connecticut
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental LLC	04-1590850		Delaware
Pioneers Gate LLC	45-2738137		Delaware
MassMutual Holding LLC	04-2854319		Delaware
Fern Street LLC	37-1732913		Delaware
Low Carbon Energy Holding	None		United Kingdom
Sleeper Street LLC	None		Delaware
Intermodal Holding II LLC	46-2344300		Delaware
Milestone Acquisition Holding LLC	47-3055009		Delaware
Teaktree Acquisition, LLC	None		Delaware
VGS Acquisition Holding, LLC	None		Delaware

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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>
Haven Life Insurance Agency, LLC	46-2252944		Delaware
Aland Royalty Holdings LP	None		Delaware
GASL Holdings LLC	None		Delaware
Barings Asset-Based Income Fund (US) LP	None		Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Barings Global Real Assets Fund LP	82-3867745		Delaware
Barings Global Special Situations Credit Fund 3	None		Ireland
Barings North American Private Loan Fund LP	38-4010344		Delaware
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
Marco Hotel LLC	46-4255307		Delaware
HB Naples Golf Owner LLC	45-3623262		Delaware
RB Apartments LLC	82-4411267		Delaware
MassMutual Ventures Holding LLC	None		Delaware
Athens Fund Management LLC	None		Delaware
Crane Venture Partners LLP	None		United Kingdom
MassMutual Ventures Management LLC	None		Delaware
MassMutual Ventures SEA Management Private Limited	None		Singapore
MassMutual Ventures Southeast Asia I LLC	None		Delaware
MassMutual Ventures Southeast Asia II LLC	None		Delaware
MassMutual Ventures Southeast Asia III LLC	None		Delaware
MMV Digital I LLC	None		Cayman Islands
MassMutual Ventures UK LLC	None		Delaware
MassMutual Ventures US I LLC	47-1296410		Delaware
MassMutual Ventures US II LLC	None		Delaware
MassMutual Ventures US III LLC	None		Delaware
MassMutual Ventures US IV LLC	None		Delaware
MM Catalyst Fund LLC	None		Delaware
MM Catalyst Fund II LLC	None		Delaware
MM Rothesay Holdco US LLC	04-1590850		Delaware
Rothesay Limited	None		United Kingdom
Rothesay Mortgages Limited	None		United Kingdom
Rothesay Life Plc	None		United Kingdom
Rothesay MA No.1 Limited	None		United Kingdom
Rothesay MA No.3 Limited	None		United Kingdom
Rothesay MA No.4 Limited	None		United Kingdom
LT Mortgage Finance Limited	None		United Kingdom
Rothesay Property Partnership 1 LLP	None		United Kingdom
Rothesay Foundation	None		United Kingdom
Rothesay Pensions Management Limited	None		United Kingdom
Rothesay Asset Management UK Limited	None		United Kingdom
Rothesay Asset Management Australia Pty Ltd	None		Australia
Rothesay Asset Management North America LLC	None		Delaware

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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
MML Investors Services, LLC	04-1590850		Massachusetts
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLISI Financial Alliances, LLC	41-2011634		Delaware
LifeScore Labs, LLC	47-1466022		Massachusetts
MM Asset Management Holding LLC	45-4000072		Delaware
Barings LLC	51-0504477		Delaware
Baring Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None		Korea
Barings Investment Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Barings Singapore Pte. Ltd.	None		Singapore
Barings Japan Limited	98-0236449		Japan
Barings Australia Holding Company Pty Ltd	None		Australia
Barings Australia Pty Ltd	None		Australia
Barings Australia Real Estate Holdings Pty Ltd	None		Australia
Barings Australia Real Estate Pty Ltd	14-0045656		Australia
Altis Property Partners Holdings Pty Ltd	98-0457456		Australia
Altis Asset Management Pty Ltd	None		Australia
Altis Property Partners Pty Ltd	None		Australia
Barings Australia Structured Finance Holdings Pty Ltd	None		Australia
Barings Australia Structured Finance Pty Ltd	None		Australia
Barings Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
BCF Senior Funding I Designated Activity Company	None		Ireland
Barings Real Estate Acquisitions LLC	None		Delaware
Barings Securities LLC	04-3238351		Delaware
Barings Guernsey Limited	98-0437588		Guernsey
Barings Europe Limited	None		United Kingdom
Barings Asset Management Spain SL	None		Spain
Baring France SAS	None		France
Baring International Fund Managers (Ireland) Limited	None		Ireland
Barings GmbH	None		Germany
Barings Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Netherlands B.V.	None		Netherlands
Barings (U.K.) Limited	98-0432153		United Kingdom
Barings Switzerland Sàrl	None		Switzerland
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom

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SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

12.6

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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 Sà.r.l	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à r. l	None		Luxembourg
PREIF Holdings Limited Partnership	None		United Kingdom
BMC Holdings DE LLC	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		Delaware
CRA Aircraft Holding LLC*	81-4258759		Delaware
Chassis Acquisition Holding LLC	81-2244465		Delaware
EIP Holdings I, LLC	None		Delaware
Novation Companies, Inc.	None		Maryland
Red Lake Ventures, LLC	46-5460309		Delaware
Remington L & W Holdings LLC*	81-4065378		Connecticut
Tamiami Citrus, LLC	None		Delaware
Techquity, LP	None		Delaware
Validus Holding Company LLC	46-0687392		Delaware
Aland Royalty GP, LLC	None		Delaware
Alaska Future Fund GP, LLC	None		Delaware
BAI Funds SLP, LLC	None		Delaware
BAI GP, LLC	None		Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None		Delaware
Barings CMS Fund GP, LLC	None		Delaware
Barings Infiniti Fund Management LLC	None		Delaware
Barings Hotel Opportunity Venture I GP, LLC	None		Delaware
Barings Investment Series LLC	None		Delaware
Barings Emerging Generation Fund GP, LLC	None		Delaware
Barings Emerging Generation Fund GP II, LLC	None		Delaware
Barings ERS PE Emerging Manager III GP, LLC	None		Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850		Delaware
Barings CLO Investment Partners GP, LLC	None		Delaware
Barings Core Property Fund GP LLC	None		Delaware
Barings Direct Lending GP Ltd.	None		Cayman Islands
Barings Emerging Generation Fund LP	84-3784245		Delaware
Barings Global Energy Infrastructure Advisors, LLC	None		Delaware

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

SCHEDULE Y – INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 – ORGANIZATIONAL CHART

12.7

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings Centre Street CLO Equity Partnership GP, LLC	None		Delaware
Barings Centre Street CLO Equity Partnership LP	None		Delaware
Barings Global Real Assets Fund GP, LLC	None		Delaware
Barings GPSF LLC	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund II Management, LLC	None		Delaware
Barings North American Private Loan Fund III Management, LLC	None		Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None		Delaware
Barings - MM Revolver Fund GP LLC	None		Delaware
BMT RE Debt Fund GP LLC	None		Delaware
Barings Small Business Fund LLC	84-5063008		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
BHOVI Incentive LLC	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
SBNP SIA II LLC	None		Delaware
SBNP SIA III LLC	None		Delaware
Barings CLO 2022-I	98-1624360		Cayman Island
Barings CLO 2022-II	None		Cayman Island
Amherst Long Term Holdings, LLC	None		Delaware
MassMutual International LLC	04-3313782		Delaware
MassMutual Solutions LLC	None		Delaware
Haven Technologies Asia Limited	None		Hong Kong
Yunfeng Financial Group Limited	None		Hong Kong
MassMutual Asia Limited (SPV)	None		Hong Kong
MassMutual External Benefits Group LLC	27-3576835		Delaware
MMV CTF I GP LLC	None		Delaware
MassMutual Ventures Climate Technology Fund I LP	27-3576835		Delaware
Other Affiliates & Funds:			
100 w. 3 rd Street LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	82-2432216		Delaware
2160 Grand Manager LLC	04-1590850		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>
300 South Tryon LLC	04-1590850		Delaware
Almack Mezzanine Fund II Unleveraged LP	None		United Kingdom
Barings Affordable Housing Mortgage Fund I LLC	82-3468147		Delaware
Barings Affordable Housing Mortgage Fund II LLC	61-1902329		Delaware
Barings Affordable Housing Mortgage Fund III LLC	85-3036663		Delaware
Barings Emerging Markets Corporate Bond Fund*	None		Ireland
Barings European Real Estate Debt Income Fund	None		Luxembourg
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Barings US High Yield Bond Fund*	None		Ireland
Babson CLO Ltd. 2012-II	None		Cayman Islands
Babson CLO Ltd. 2013-I	None		Cayman Islands
Babson CLO Ltd. 2015-I	None		Cayman Islands
Babson CLO Ltd. 2015-II	None		Cayman Islands
Babson CLO Ltd. 2016-I	None		Cayman Islands
Babson CLO Ltd. 2016-II	None		Cayman Islands
Barings CLO Ltd. 2017-I	None		Cayman Islands
Barings CLO 2018-III	None		Cayman Islands
Barings CLO 2018-IV	None		Cayman Islands
Barings CLO 2019-II	98-1473665		Cayman Islands
Barings CLO 2019-III	None		Cayman Islands
Barings CLO 2019-IV	None		Cayman Islands
Barings CLO 2020-I	None		Cayman Islands
Barings CLO 2020-II	None		Cayman Islands
Barings CLO 2020-III	None		Cayman Islands
Barings CLO 2020-IV	None		Cayman Islands
Barings CLO 2021-I	None		Cayman Islands
Barings CLO 2021-II	None		Cayman Islands
Barings CLO 2021-III	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2014-II BV	None		Netherlands
Babson Euro CLO 2015-I BV	None		Netherlands
Barings Euro CLO 2019-I	3603726OH		Ireland
Barings Euro CLO 2019-II	None		Ireland
Barings Euro CLO 2020-I DAC	None		Ireland
Barings Euro CLO 2021-I DAC	3715576VH		Ireland
Barings Euro CLO 2021-II DAC	3750378QH		Ireland
Barings Euro CLO 2021-III DAC	None		Ireland
Barings Euro CLO 2022-I DAC	None		Ireland
Barings Global Em. Markets Equity Fund	82-5330194		North Carolina
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands
Barings Global Special Situations Credit 4 Delaware*	85-1465973		Delaware
Barings Global Special Situations Credit 4 LUX*	98-1570693		Luxembourg
Barings Global Technology Equity Fund	None		Ireland

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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
Barings Europe Select Fund	None		Ireland
Barings Hotel Opportunity Venture	87-0977058		Connecticut
Barings Innovations & Growth Real Estate Fund*	86-3661023		Delaware
Barings Middle Market CLO 2017-I Ltd & LLC	None		Cayman Islands
Barings Middle Market CLO 2018-I	None		Cayman Islands
Barings Middle Market CLO 2019-I	None		Cayman Islands
Barings Middle Market CLO Ltd 2021-I	98-1612604		Cayman Islands
Barings RE Credit Strategies VII LP	98-1332384		Delaware
Barings Target Yield Infrastructure Debt Fund*	98-1567942		Luxembourg
Barings CLO Investment Partners LP	81-0841854		Delaware
Barings Euro Value Add II (BREEVA II) *	None		Luxembourg
Barings Real Estate European Value Add I SCSp*	None		United Kingdom
Barings Real Estate Debt Income Fund LP*	85-3449260		Delaware
Barings Transportation Fund LP*	87-1262754		Delaware
Braemar Energy Ventures I, L.P.*	None		Delaware
Barings European Core Property Fund SCSp	None		Luxembourg
Barings European Private Loan Fund III A	46-5001122		Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932		New York
Benchmark 2018-B4	None		New York
Benchmark 2018-B8	38-4096530		New York
Barings Core Property Fund LP	20-5578089		Delaware
DPI Acres Capital SPV LLC	04-1590850		Delaware
Gateway Mezzanine Partners II LP*	90-0991195		Delaware
Great Lakes III, L.P.	37-1708623		Delaware
GIA EU Holdings - Emerson JV Sarl	98-1607033		Luxembourg
JPMCC Commercial Mortgage Securities Trust 2017-JP7	38-4041011; 38-4041012		New York
JPMDB Commercial Mortgage Securities Trust 2017-C5	38-4032059		New York
Martello Re	None		Bermuda
Miami Douglas Two GP LLC*	04-1590850		Delaware
Miami Douglas Two LP*	04-1590850		Delaware
Miami Douglas Three MM LLC	04-1590850		Delaware
MM BIG Peninsula Co-Invest Member LLC	87-4021641		Delaware
MM Direct Private Investment Holding	04-1590850		Delaware
MM CM Holding LLC	None		Delaware
MM Debt Participations LLC	81-3000420		Delaware
Somerset Special Opportunities Fund L.P.*	20-8856877		Delaware
Ten Fan Pier Boulevard LLC	35-2553915		Delaware
Tower Square Capital Partners III, L.P.	41-2280127		Delaware
Tower Square Capital Partners IIIA, L.P.	41-2280129		Delaware
Trailside MM Member LLC*	04-1590850		Delaware
Washington Gateway Two LLC*	83-1325764		Delaware
Washington Gateway Three LLC*	32-0574045		Delaware

Barings Affiliates & Funds:

*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
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
Calgary Railway Holding LLC*	82-2285211		Delaware
Cornbrook PRS Holdings LLC	82-3307907		Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717		California
Cornerstone California Mortgage Fund II LLC	95-4207717		California
Cornerstone California Mortgage Fund III LLC	95-4207717		California
Cornerstone Fort Pierce Development LLC*	56-2630592		Delaware
Cornerstone Permanent Mortgage Fund	45-2632610		Massachusetts
Cornerstone Permanent Mortgage Fund II	61-1750537		Massachusetts
Cornerstone Permanent Mortgage Fund III	35-2531693		Massachusetts
Cornerstone Permanent Mortgage Fund IV	61-1793735		Massachusetts
CREA/PPC Venture LLC	20-0348173		Delaware
Danville Riverwalk Venture, LLC	82-2783393		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
MMLIC Debt Participations LLC	13-1935920		Delaware
MM Brookhaven Member LLC	04-1590850		Delaware
MM Kannapolis Industrial Member LLC	04-1590850		Delaware
MM East South Crossing Member LLC	04-1590850		Delaware
MM Horizon Savannah Member LLC*	04-1590850		Delaware
MM National Self-Storage Program Member LLC	04-1590850		Delaware
MM 1400 E 4th Street Member LLC	04-1590850		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
PACO France Logistics LLC	04-1590850		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Trailside MM Member II LLC	04-1590850		Delaware
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
West 37th Street Hotel LLC*	88-3861481		Delaware
MassMutual Premier Funds:			
MassMutual Premier Main Street Fund	51-0529328		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 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
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

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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 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

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STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percen-tage	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	MassMutual Ventures Europe/APAC I GP, LLC ..	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0435	MassMutual Ventures Europe/APAC I GP, L.P. ..	..CYM.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0435	MassMutual Ventures Europe/APAC I L.P. ....	..CYM.....	..NIA.....	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 .....	.....	.....
. 0435 ...	Massachusetts Mut Life Ins Co .....	.....	.....	.....	.....	.....	CM Life Mortgage Lending 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	MML Special Situations Investor LLC .....	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0000	47-5322979 ..	.....	.....	.....	Timberland Forest Holding LLC .....	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0000	47-5322979 ..	.....	.....	.....	Timberland Forest Holding LLC .....	.. DE.....	..NIA.....	C.M. Life Insurance Company	Influence.....	0.000	MMLIC .....	.....	.....
. 0000	47-5322979 ..	.....	.....	.....	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 ..	.....	.....	.....	Berkshire Way LLC .....	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0000	83-0560183 ..	.....	.....	.....	Aland Royalty Holdings LP .....	.. DE.....	..NIA.....	MassMutual Holding LLC	Ownership/Influence	26.700	MMLIC .....	.....	.....
. 0000	82-2932156 ..	.....	.....	.....	GASL Holdings LLC .....	.. DE.....	..NIA.....	MassMutual Holding LLC	Ownership.....	11.300	MMLIC .....	.....	.....
. 0000	04-1590850 ..	.....	.....	.....	MSP-SC, LLC .....	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0000	EM Opportunities LLC .....	.. DE.....	..NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC .....	.....	.....
. 0000	MassMutual MCAM 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, LP .....	.. DE.....	..NIA.....	MassMutual Ventures US IV, GP, LLC	Ownership.....	100.000	MMLIC .....	.....	.....

STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.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							HITPS LLC	..DE	.....NIA	ITPS Holding LLC	Ownership	100.000	MMLIC		
.0000							JFIN Parent LLC	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
.0000							Forma Brands, LLC*	..DE	.....NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		
.0000			27-0105644				Jefferies Finance LLC	..DE	.....NIA	JFIN Parent LLC	Ownership	50.000	MMLIC		1
.0000			86-2294635				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							Jefferies Private Credit BDC Inc.	..MD	.....NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.0000							JFIN GP Adviser LLC	..DE	.....NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.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 II 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 II C Holdings LLC	Ownership	100.000	MMLIC		
.0000							Jefferies Senior Lending LLC	..DE	.....NIA	Jefferies Finance LLC	Ownership	100.000	MMLIC		
.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		

STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.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							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	Beauty Brands Acquisition Intermediate 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.	.BMJ	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							JFIN Revolver SPE4 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							Apex Credit Holdings LLC	.DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2012 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2013 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2014 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2014-II Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2015 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2015-II Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	85.000	MMLIC		
.0000							JFIN CLO 2016 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2017 Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							JFIN CLO 2017-II Ltd.	.CYM	NIA	Apex Credit Partners LLC	Ownership	100.000	MMLIC		
.0000							Tomorrow Parent, LLC	.DE	NIA	JFIN Parent LLC	Ownership	100.000	MMLIC		

STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.0000							Custom Ecology Holdco, LLC	..DE....	.....NIA.....	JFIN Parent LLC	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							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.....	99.600	MMLIC		
.0000			26-0073611				MassMutual Asset Finance LLC	..DE....	.....NIA.....	MM Investment Holding	Ownership.....	99.600	MMLIC		
.0000			26-0073611				MassMutual Asset Finance LLC	..DE....	.....NIA.....	C.M. Life Insurance Company	Ownership.....	0.400	MMLIC		
.0000			36-4785301				MMAF Equipment Finance LLC 2014-A	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000			35-2590691				MMAF Equipment Finance LLC 2017-A	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000			32-0546197				MMAF Equipment Finance LLC 2017-B	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000			82-5335801				MMAF Equipment Finance LLC 2018-A	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000			83-3722640				MMAF Equipment Finance LLC 2019-A	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000							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							Rozier LLC	..DE....	.....NIA.....	MassMutual Asset Finance LLC	Ownership.....	100.000	MMLIC		
.0000			04-2443240				MML Management Corporation	..MA....	.....NIA.....	MM Investment Holding	Ownership.....	100.000	MMLIC	...YES...	
.0000			04-3548444				MassMutual International Holding MSC, Inc.	..MA....	.....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		
.0000							Flourish Digital Assets LLC	..DE....	.....NIA.....	MML CM LLC	Ownership.....	100.000	MMLIC		
.0000							Flourish Financial LLC	..DE....	.....NIA.....	MML CM LLC	Ownership.....	100.000	MMLIC		
.0000							Flourish Holding Company LLC	..DE....	.....NIA.....	MML CM LLC	Ownership.....	100.000	MMLIC		
.0000							Flourish Insurance Agency LLC	..DE....	.....NIA.....	MML CM LLC	Ownership.....	100.000	MMLIC		
.0000							Flourish Technologies LLC	..DE....	.....NIA.....	MML CM LLC	Ownership.....	100.000	MMLIC		
.0000			04-3356880				MML Distributors LLC	..MA....	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	99.000	MMLIC		
.0000			04-3356880				MML Distributors LLC	..MA....	.....NIA.....	MassMutual Holding LLC	Ownership.....	1.000	MMLIC		
.0000							MML Investment Advisers, LLC	..DE....	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000			46-3238013				MML Strategic Distributors, LLC	..DE....	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000			06-1563535	2881445			The MassMutual Trust Company, FSB	..CT....	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC	...YES...	

STATEMENT AS OF MARCH 31, 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 Location	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 Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
. 0000			04-1590850				MML Private Placement Investment Company I, LLC	.. DE	..... NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			04-1590850				MML Private Equity Fund Investor LLC	.. DE	..... NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	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	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			45-2738137				Pioneers Gate LLC	.. DE	..... NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC		
. 0000			04-2854319	2392316			MassMutual Holding LLC	.. DE	..... NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MMLIC	..YES	
. 0000			06-1597528				MassMutual Assignment Company	.. NC	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			37-1732913				Fern Street LLC	.. DE	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Low Carbon Energy Holding	.. GBR	..... NIA	MassMutual Holding LLC	Ownership	49.000	MMLIC		
. 0000							Sleeper Street LLC	.. DE	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Intermodal Holding II LLC	.. DE	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000							Milestone Acquisition Holding LLC	.. DE	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			46-2252944				Haven Life Insurance Agency, LLC	.. DE	..... NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
. 0000			04-1590850				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							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							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 Southeast Asia III 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							MassMutual Ventures US IV LLC	.. DE	..... NIA	MassMutual Ventures 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 Life Plc	.. GBR	..... NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.1 Limited	.. GBR	..... NIA	Rothesay Life PLC	Ownership	100.000	MMLIC		
. 0000							Rothesay Mortgages Limited	.. GBR	..... NIA	Rothesay Limited	Ownership	100.000	MMLIC		
. 0000							Rothesay MA No.3 Limited	.. GBR	..... 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		

STATEMENT AS OF MARCH 31, 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
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.0000							Rothesay Asset Management Australia Pty Ltd	.AUS	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
.0000							Rothesay Asset Management North America LLC	.DE	NIA	Rothesay Asset Management UK Limited	Ownership	100.000	MMLIC		
.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			47-1466022				LifeScore Labs, LLC	.MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			45-4000072				MM Asset Management Holding LLC	.MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			51-0504477				Barings LLC	.MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			04-1590850				MML Investors Services, LLC	.MA	NIA	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000			04-1590850				MML Insurance Agency, LLC	.MA	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
.0000			41-2011634				MMLISI Financial Alliances, LLC	.DE	NIA	MML Investors Services, LLC	Ownership	100.000	MMLIC		
.0000			51-0504477				Barings LLC	.DE	NIA	MassMutual Asset Management 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) Limited	Ownership	100.000	MMLIC		
.0000							Barings Overseas Investment Fund Management (Shanghai) Limited	.HKG	NIA	Barings Investment Management (Shanghai) Limited	Ownership	100.000	MMLIC		
.0000			98-0457707				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			14-0045656				Barings Australia Real Estate Pty Ltd	.AUS	NIA	Barings Australia Real Estate Holdings Pty Ltd	Ownership	100.000	MMLIC		
.0000			98-0457456				Altis Property Partners Holdings Pty Ltd	.AUS	NIA	Barings Australia Real Estate Pty Ltd	Ownership	100.000	MMLIC		
.0000							Altis Asset Management Pty Ltd	.AUS	NIA	Altis Property Partners Holdings Pty Ltd	Ownership	100.000	MMLIC		
.0000							Altis Property Partners Pty Ltd	.AUS	NIA	Altis Property Partners Holdings Pty Ltd	Ownership	100.000	MMLIC		
.0000							Barings Australia Structured Finance Holdings Pty Ltd	.AUS	NIA	Barings LLC	Ownership	100.000	MMLIC		
.0000							Barings Australia Structured Finance Pty Ltd	.AUS	NIA	Barings Australia Structured Finance Holdings 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		

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

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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.0000							Barings Asset Management Spain SLESP.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Baring France SAS .....	.FRA.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Baring International Fund Managers (Ireland) Limited .....	.IRL.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings GmbH .....	.DEU.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings Italy S.r.l. ....	.ITA.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings Sweden AB .....	.SWE.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings Netherlands B.V. ....	.NLD.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000			98-0432153				Barings (U.K.) Limited .....	.GBR.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings Switzerland Sarl .....	.CHE.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000			98-0241935				Baring Asset Management Limited .....	.GBR.....	NIA.....	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000							Barings European Direct Lending 1 GP LLP .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000			98-0457328				Baring International Investment Limited .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000							Baring International Investment Management Holdings .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000										Baring International Investment Management Holdings	Ownership.....	100.000	MMLIC		
.0000			98-0457576				Baring Asset Management UK Holdings Limited .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000			98-0457586				Baring Fund Managers Limited .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000							BCGSS 2 GP LLP .....	.GBR.....	NIA.....	Baring Fund Managers Limited	Ownership.....	100.000	MMLIC		
.0000			98-0457578				Baring Investment Services Limited .....	.GBR.....	NIA.....	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000							Barings Core Fund Feeder I 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 Sarl .....	.GBR.....	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 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										Massachusetts Mutual Life Insurance Company	Ownership/Influence	30.000	MMLIC		
.0000			81-2244465				Chassis Acquisition 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	Ownership/Influence	17.100	MMLIC		
.0000			81-4258759				CRA Aircraft Holding LLC .....	.DE.....	NIA.....	Barings LLC	Ownership/Influence	31.500	MMLIC		
.0000			83-0560183				Aland Royalty Holdings LP .....	.DE.....	NIA.....	Barings LLC	Ownership/Influence	19.900	MMLIC		
.0000			82-2932156				GASL Holdings LLC .....	.DE.....	NIA.....	Barings LLC	Ownership/Influence	15.700	MMLIC		
.0000			46-2344300				Intermodal Holdings II LLC .....	.DE.....	NIA.....	Barings LLC	Ownership/Influence	15.700	MMLIC		
.0000			47-3055009				Milestone Acquisition Holding, LLC. ....	.DE.....	NIA.....	MassMutual Holding LLC	Ownership/Influence	15.700	MMLIC		
.0000										Massachusetts Mutual Life Insurance Company	Ownership.....	17.100	MMLIC		
.0000							Novation Companies, Inc. ....	.MD.....	NIA.....	Barings LLC	Influence.....		MMLIC		
.0000							Novation Companies, Inc. ....	.MD.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	31.500	MMLIC		
.0000			46-5460309				Red Lake Ventures, LLC .....	.DE.....	NIA.....	Barings LLC	Ownership/Influence	19.900	MMLIC		
.0000			46-5460309				Red Lake Ventures, 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	Ownership/Influence	15.700	MMLIC		
.0000			81-4065378				Remington L & W Holdings LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	15.700	MMLIC		
.0000							Tamiami Citrus, LLC .....	.DE.....	NIA.....	Company	Ownership.....	15.700	MMLIC		

STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.0000							Tamiami Citrus, LLC	..DE	..NIA	Barings LLC	Management/Board		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							Techquity, LP	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..15.600	MMLIC		
.0000							Techquity, LP	..DE	..NIA	Barings LLC	Influence		MMLIC		
.0000							EIP Holdings I, LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..29.000	MMLIC		
.0000			46-0687392				Validus Holding Company LLC	..DE	..NIA	Barings LLC	Ownership	..40.400	MMLIC		
.0000							VGS Acquisition Holding, LLC	..DE	..NIA	MassMutual Holding LLC	Ownership/Influence	..33.300	MMLIC		
.0000							VGS Acquisition Holding, LLC	..DE	..NIA	Barings LLC	Management		MMLIC		
.0000							Aland Royalty GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Alaska Future Fund GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							BAI GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							BAI Funds SLP, 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 Infniti 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							Barings 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							Barings CLO Investment Partners GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings Core Property Fund GP LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings Direct Lending GP Ltd.	..CYM	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000			84-3784245				Barings Emerging Generation Fund LP	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..46.100	MMLIC		
.0000			84-3784245				Barings Emerging Generation Fund LP	..DE	..NIA	Barings LLC	Management		MMLIC		
.0000							Barings Global Energy Infrastructure Advisors, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings Centre Street CLO Equity Partnership GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings North American Private Loan Fund Management, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings North American Private Loan Fund II Management, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings North American Private Loan Fund III Management, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings - MM Revolver Fund GP LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							BMT RE Debt Fund GP LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings Global Real Assets Fund GP, LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000							Barings GPSF LLC	..DE	..NIA	Barings LLC	Ownership	..100.000	MMLIC		
.0000			84-5063008				Barings Small Business Fund LLC	..DE	..NIA	Massachusetts Mutual Life Insurance Company	Ownership	..33.600	MMLIC		
.0000			84-5063008				Barings Small Business Fund LLC	..DE	..NIA	Barings LLC	Management		MMLIC		

STATEMENT AS OF MARCH 31, 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
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.0000			98-0536233				Benton Street Advisors, Inc.	.CYM		Barings LLC	Ownership	100.000	MLL IC		
.0000							BHOVI Incentive LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							BIG Real Estate Fund GP LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							BIG Real Estate Incentive I LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							BIG Real Estate Incentive II LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							BRECS VII GP LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							BREDIF GP LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							CREF X GP LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000			04-1590850				Great Lakes III GP, LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							Lake Jackson LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							Barings Emerging Markets Blended Fund I GP, LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000			41-2280126				Mezzco III LLC	.DE	NIA	Barings LLC	Ownership	99.300	MLL IC		
.0000			80-0920285				Mezzco IV LLC	.DE	NIA	Barings LLC	Ownership	99.300	MLL IC		
.0000							Mezzco Australia II LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							RECSA-NY GP LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000			04-1590850				SBNP SIA II LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							SBNP SIA III LLC	.DE	NIA	Barings LLC	Ownership	100.000	MLL IC		
.0000							Amherst Long Term Holdings, LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	24.500	MLL IC		
.0000			04-3313782				MassMutual International LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC	YES	
.0000							MassMutual Solutions LLC	.DE	NIA	MassMutual International LLC	Ownership	100.000	MLL IC		
.0000							Haven Technologies Asia Limited	.HKG	NIA	MassMutual Solutions LLC	Ownership	100.000	MLL IC		
.0000							Yunfeng Financial Group Limited	.HKG	NIA	MassMutual International LLC	Ownership	24.900	MLL IC		
.0000							MassMutual Asia Limited (SPV)	.HKG	NIA	MassMutual International LLC	Ownership	100.000	MLL IC		
.0000			27-3576835				MassMutual External Benefits Group LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000							MMV CTF I GP LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000							MassMutual Ventures Climate Technology Fund I LP	.DE	NIA	MMV CTF I GP LLC	Ownership	100.000	MLL IC		
.0000			04-1590850				100 w. 3rd Street LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000			04-1590850				2160 Grand Manager LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	95.000	MLL IC		
.0000			82-2432216				300 South Tryon Hotel LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000			04-1590850				300 South Tryon LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000							Almack Mezzanine Fund II Unleveraged LP	.GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	72.900	MLL IC		
.0000							Barings Affordable Housing Mortgage Fund I LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000							Barings Affordable Housing Mortgage Fund I LLC	.DE	NIA	Barings LLC	Management		MLL IC		
.0000			61-1902329				Barings Affordable Housing Mortgage Fund II LLC	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	100.000	MLL IC		
.0000			61-1902329				Barings Affordable Housing Mortgage Fund II LLC	.DE	NIA	Barings LLC	Management		MLL IC		

STATEMENT AS OF MARCH 31, 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
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.0000			85-3036663				Barings Affordable Housing Mortgage Fund III LLC	..DENIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000	MMLIC		
.0000			85-3036663				Barings Affordable Housing Mortgage Fund III LLC	..DE	.....NIA.....	Barings LLC	Management.....		MMLIC		
.0000			36-4868350				Barings Asset-Based Income Fund (US) LP	..DE	.....NIA.....	MassMutual Holding LLC	Ownership/Influence .....	..11.200	MMLIC		
.0000			36-4868350				Barings Asset-Based Income Fund (US) LP	..DE	.....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							Barings Emerging Markets Corporate Bond Fund	..IRL	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	..53.200	MMLIC		
.0000							Barings Emerging Markets Corporate Bond Fund	..IRL	.....NIA.....	Barings LLC	Ownership.....	..17.200	MMLIC		
.0000							Barings European Real Estate Debt Income Fund	..LUX	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	..66.300	MMLIC		
.0000							Barings European Real Estate Debt Income Fund	..LUX	.....NIA.....	Barings LLC	Influence.....		MMLIC		
.0000			98-1206017				Babson Capital Global Special Situation Credit Fund 2	..DE	.....NIA.....	MassMutual Holding LLC	Ownership/Influence .....	..21.800	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			37-1506417				Babson Capital Loan Strategies Fund, L.P.	..DE	.....NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	..75.700	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 .....	..55.100	MMLIC		
.0000							Barings US High Yield Bond Fund	..IRL	.....NIA.....	Barings LLC	Management.....		MMLIC		
.0000							Babson CLO Ltd. 2013-I	..CYM	.....NIA.....	Barings LLC	Influence.....		MMLIC		2
.0000							Babson CLO Ltd. 2015-I	..CYM	.....NIA.....	Barings LLC	Influence.....		MMLIC		3
.0000							Babson CLO Ltd. 2015-II	..CYM	.....NIA.....	Barings LLC	Influence.....		MMLIC		4
.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-I	..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			98-1624360				Barings CLO 2022-I	..CYM	.....NIA.....	Barings LLC	Influence.....		MMLIC		
.0000							Barings CLO 2022-II	..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		

STATEMENT AS OF MARCH 31, 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
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.0000							Barbson Euro CLO 2015-I BV	.NLD	NIA	Barings LLC	Influence		MLIC		
.0000			36-037260H				Barings Euro CLO 2019-I BV	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000							Barings Euro CLO 2019-II BV	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000							Barings Euro CLO 2020-I DAC	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000			37-15576VH				Barings Euro CLO 2021-I DAC	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000							Barings Euro CLO 2021-II DAC	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000							Barings Euro CLO 2021-III DAC	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000							Barings Euro CLO 2022-I DAC	.IRL	NIA	Barings LLC	Influence		MLIC		
.0000			81-0841854				Barings CLO Investment Partners LP	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.92.700	MLIC		
.0000			81-0841854				Barings CLO Investment Partners LP	.DE	NIA	Barings LLC	Management		MLIC		
.0000			88-3792609				Barings Centre Street CLO Equity Partnership LP	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.25.300	MLIC		
.0000							Barings Euro Value Add II (BREEVA II)	.LUX	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.30.500	MLIC		
.0000							Barings Euro Value Add II (BREEVA II)	.LUX	NIA	C.M. Life Insurance Company	Ownership	.2.700	MLIC		
.0000							Barings Euro Value Add II (BREEVA II)	.LUX	NIA	Barings LLC	Management		MLIC		
.0000							Barings Real Estate European Value Add I SCSp	.GBR	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.44.000	MLIC		
.0000							Barings Real Estate European Value Add I SCSp	.GBR	NIA	C.M. Life Insurance Company	Ownership	.4.900	MLIC		
.0000							Barings Real Estate European Value Add I SCSp	.GBR	NIA	Barings LLC	Management		MLIC		
.0000			85-3449260				Barings Real Estate Debt Income Fund LP	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.81.300	MLIC		
.0000			85-3449260				Barings Real Estate Debt Income Fund LP	.DE	NIA	C.M. Life Insurance Company	Influence		MLIC		
.0000			85-3449260				Barings Real Estate Debt Income Fund LP	.DE	NIA	Barings LLC	Management		MLIC		
.0000			82-5330194				Barings Global Em. Markets Equity Fund	.NC	NIA	Barings LLC	Management		MLIC		
.0000			98-1332384				Barings Global Energy Infrastructure Fund I LP	.CYM	NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.100.000	MLIC		
.0000			98-1332384				Barings Global Energy Infrastructure Fund I LP	.CYM	NIA	Baring Asset Management Limited	Management		MLIC		
.0000							Barings Global Dividends Champion Fund	.IRL	NIA	Barings LLC	Management		MLIC		
.0000							Barings LLC	.IRL	NIA	Barings LLC			MLIC		
.0000			82-3867745				Barings Global Real Assets Fund LP	.DE	NIA	MassMutual Holding LLC	Ownership/Influence	.26.800	MLIC		
.0000			82-3867745				Barings Global Real Assets Fund LP	.DE	NIA	C.M. Life Insurance Company	Ownership	.7.000	MLIC		
.0000			82-3867745				Barings Global Real Assets Fund LP	.DE	NIA	Barings LLC	Management		MLIC		
.0000							Barings Global Special Situations Credit Fund 3	.IRL	NIA	MassMutual Holding LLC	Ownership/Influence	.19.800	MLIC		
.0000							Barings Global Special Situations Credit 4 Delaware	.DE	NIA	Massachusetts Mutual Life Insurance Company	Ownership	.70.200	MLIC		
.0000							Barings Global Special Situations Credit 4 Delaware	.DE	NIA	C.M. Life Insurance Company	Ownership	.3.700	MLIC		
.0000							Barings Global Special Situations Credit 4 Delaware	.DE	NIA	Barings LLC	Management		MLIC		
.0000							Barings Global Special Situations Credit 4 LUX	.LUX	NIA	Massachusetts Mutual Life Insurance Company	Ownership	.13.200	MLIC		
.0000							Barings Global Special Situations Credit 4 LUX	.LUX	NIA	C.M. Life Insurance Company	Ownership	.0.700	MLIC		
.0000							Barings Global Special Situations Credit 4 LUX	.LUX	NIA	Barings LLC	Management		MLIC		

STATEMENT AS OF MARCH 31, 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 Location	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 Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.0000							Barings Global Special Situations Credit Fund 3	..IRL	.....NIA	Barings LLC	Management		MMLIC		
.0000							Barings Global Technology Equity Fund	..IRL	.....NIA	Barings LLC	Ownership/Influence	..73.000	MMLIC		
.0000			87-0977058				Barings Hotel Opportunity Venture	..CT	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..48.700	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	..32.800	MMLIC		
.0000			86-3661023				Barings Innovations & Growth Real Estate Fund	..DE	.....NIA	C.M. Life Insurance Company	Ownership	..0.500	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			38-4010344				Barings North American Private Loan Fund LP	..DE	.....NIA	MassMutual Holding LLC	Ownership/Influence	..37.500	MMLIC		
.0000			38-4010344				Barings North American Private Loan Fund LP	..DE	.....NIA	Baring Asset Management Limited	Management		MMLIC		
.0000			98-1332384				Barings RE Credit Strategies VII LP	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..33.700	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	..18.400	MMLIC		
.0000			98-1567942				Barings Target Yield Infrastructure Debt Fund	..LUX	.....NIA	Baring Asset Management Limited	Management		MMLIC		
.0000			87-1262754				Barings Transportation Fund LP	..DE	.....NIA	MassMutual Holding LLC	Ownership/Influence	..11.700	MMLIC		
.0000			87-1262754				Barings Transportation Fund LP	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..8.200	MMLIC		
.0000							Braemar Energy Ventures I, L.P.	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..89.300	MMLIC		
.0000							Braemar Energy Ventures I, L.P.	..DE	.....NIA	C.M. Life Insurance Company	Ownership	..1.300	MMLIC		
.0000							Braemar Energy Ventures I, L.P.	..DE	.....NIA	Barings LLC	Management		MMLIC		
.0000			38-4096530				Barings European Core Property Fund SCSp	..LUX	.....NIA	MassMutual Holding LLC	Ownership/Influence	..7.600	MMLIC		
.0000			20-5578089				Barings European Core Property Fund SCSp	..LUX	.....NIA	C.M. Life Insurance Company	Ownership	..0.500	MMLIC		
.0000			20-5578089				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	..45.200	MMLIC		
.0000			38-4059932				Benchmark 2018-B2 Mortgage Trust	..NY	.....NIA	Barings LLC	Influence		MMLIC		
.0000							Benchmark 2018-B4	..NY	.....NIA	Barings LLC	Influence		MMLIC		
.0000			38-4096530				Benchmark 2018-B8	..NY	.....NIA	Barings LLC	Influence		MMLIC		
.0000			20-5578089				Barings Core Property Fund LP	..DE	.....NIA	MassMutual Holding LLC	Ownership/Influence	..23.300	MMLIC		
.0000			20-5578089				Barings Core Property Fund LP	..DE	.....NIA	Barings Real Estate Advisers LLC	Management		MMLIC		
.0000			35-2531693				Cornerstone Permanent Mortgage Fund III LLC	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..100.000	MMLIC		
.0000			61-1793735				Cornerstone Permanent Mortgage Fund IV LLC	..MA	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership	..100.000	MMLIC		
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	..DE	.....NIA	Company	Ownership/Influence	..34.800	MMLIC		
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	..DE	.....NIA	C.M. Life Insurance Company	Ownership	..5.200	MMLIC		
.0000			90-0991195		0001597511		Gateway Mezzanine Partners II LP	..DE	.....NIA	Barings LLC	Management		MMLIC		
.0000			37-1708623				Great Lakes III, L.P.	..DE	.....NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	..41.400	MMLIC		

STATEMENT AS OF MARCH 31, 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 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 Re- quired? (Yes/No)	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	Relation- ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)					
. 0000 ...			37-1708623 ..				Great Lakes III, L.P. ....	.. DE.....	.. NIA.....	Barings LLC Massachusetts Mutual Life Insurance Company	Management.....		MLL IC		
. 0000 ...							GIA EU Holdings – Emerson JV Sarl .....	.. LUX.....	.. NIA.....	Company	Ownership/Influence .....	..63.300 ..	MLL IC		
. 0000 ...							GIA EU Holdings – Emerson JV Sarl .....	.. LUX.....	.. NIA.....	Barings LLC	Management.....		MLL IC		
. 0000 ...			38-4041011 ..				JPMCC Commercial Mortgage Securities Trust 2017-JP7 .....	.. NY.....	.. NIA.....	Barings LLC	Influence.....		MLL IC		
. 0000 ...			38-4032059 ..				JPMDB Commercial Mortgage Securities Trust 2017-C5 .....	.. NY.....	.. NIA.....	Barings LLC	Influence.....		MLL IC		
. 0000 ...			04-1590850 ..				Miami Douglas Two GP LLC .....	.. DE.....	.. NIA.....	Company	Influence.....	.. 0.000 ..	MLL IC		
. 0000 ...			04-1590850 ..				Miami Douglas Two GP LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Influence.....	.. 0.000 ..	MLL IC		
. 0000 ...			04-1590850 ..				Miami Douglas Two LP .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..90.000 ..	MLL IC		
. 0000 ...			04-1590850 ..				Miami Douglas Two LP .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	..10.000 ..	MLL IC		
. 0000 ...			04-1590850 ..				Miami Douglas Three MM LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000 ..	MLL IC		
. 0000 ...			87-4021641 ..				MM BIG Peninsula Co-Invest Member LLC .....	.. DE.....	.. NIA.....	Company	Ownership.....	..27.800 ..	MLL IC		
. 0000 ...			87-4021641 ..				MM BIG Peninsula Co-Invest Member LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	.. 0.800 ..	MLL IC		
. 0000 ...							MM CM Holding LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000 ..	MLL IC		
. 0000 ...			04-1590850 ..				MM Direct Private Invetment Holding .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000 ..	MLL IC		
. 0000 ...			81-3000420 ..				MM Debt Participations LLC .....	.. DE.....	.. NIA.....	Company	Ownership/Influence .....	..100.000 ..	MLL IC		
. 0000 ...			81-3000420 ..				MM Debt Participations LLC .....	.. DE.....	.. NIA.....	Barings LLC	Management.....		MLL IC		
. 0000 ...			20-8856877 ..				Somerset Special Opportunities Fund L.P. ....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	..40.100 ..	MLL IC		
. 0000 ...			20-8856877 ..				Somerset Special Opportunities Fund L.P. ....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	.. 1.900 ..	MLL IC		
. 0000 ...			35-2553915 ..				Ten Fan Pier Boulevard LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..100.000 ..	MLL IC		
. 0000 ...			41-2280127 ..				Tower Square Capital Partners III, L.P. ....	.. DE.....	.. NIA.....	Company	Ownership.....		MLL IC		
. 0000 ...			41-2280127 ..				Tower Square Capital Partners III, L.P. ....	.. DE.....	.. NIA.....	Barings LLC	Management.....		MLL IC		
. 0000 ...			41-2280129 ..				Tower Square Capital Partners IIIA, L.P. ....	.. DE.....	.. NIA.....	MassMutual Holding LLC	Ownership/Influence .....	..16.500 ..	MLL IC		
. 0000 ...			41-2280129 ..				Tower Square Capital Partners IIIA, L.P. ....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	..93.100 ..	MLL IC		
. 0000 ...			04-1590850 ..				Tower Square Capital Partners IIIA, L.P. ....	.. DE.....	.. NIA.....	Barings LLC	Management.....		MLL IC		
. 0000 ...			04-1590850 ..				Trailside MM Member LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..66.970 ..	MLL IC		
. 0000 ...			04-1590850 ..				Trailside MM Member LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	.. 7.400 ..	MLL IC		
. 0000 ...			04-1590850 ..				Trailside MM Member II LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....		MLL IC		
. 0000 ...			83-1325764 ..				Washington Gateway Two LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..96.020 ..	MLL IC		
. 0000 ...			83-1325764 ..				Washington Gateway Two LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	.. 6.700 ..	MLL IC		
. 0000 ...			32-0574045 ..				Washington Gateway Three LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..95.380 ..	MLL IC		
. 0000 ...			32-0574045 ..				Washington Gateway Three LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	..11.400 ..	MLL IC		
. 0000 ...			88-3861481 ..				West 37th Street Hotel LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	..93.800 ..	MLL IC		
. 0000 ...			88-3861481 ..				West 37th Street Hotel LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company	Ownership.....	.. 6.300 ..	MLL IC		

STATEMENT AS OF MARCH 31, 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 Location	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 Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
. 0000 ...							Martello Re .....	.BMJ.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership/Influence	0.300	MLLIC		
. 0000 ...							Babson Capital Loan Strategies Master Fund LP .....	.CYM.....	NIA.....	Barings LLC	Management.....		MLLIC		
. 0000 ...							Barings China Aggregate Bond Private .....	.CHN.....	NIA.....	Barings LLC	Management.....		MLLIC		
. 0000 ...							Securities Investment Fund .....	.GBR.....	NIA.....	Barings LLC	Ownership/Influence .....	.26.000	MLLIC		
. 0000 ...			47-3790192 ..				Barings European Growth Trust Fund .....	.MA.....	NIA.....	Barings LLC	Management.....		MLLIC		
. 0000 ...							Barings Global High Yield Fund .....	.CHN.....	NIA.....	Barings LLC	Ownership/Influence .....	.67.400	MLLIC		
. 0000 ...			71-1018134 ..				CCIC Fund			Massachusetts Mutual Life Insurance Company	Ownership.....	.10.600	MLLIC		
. 0000 ...			71-1018134 ..				Great Lakes II LLC .....	.DE.....	NIA.....	C.M. Life Insurance Company	Ownership.....	0.980	MLLIC		
. 0000 ...			04-1590850 ..				Great Lakes II LLC			Massachusetts Mutual Life Insurance Company	Ownership.....	.40.000	MLLIC		
. 0000 ...			13-1935920 ..				Wood Creek Venture Fund LLC .....	.DE.....	NIA.....	Massachusetts Mutual Ascend	Ownership.....	100.000	MLLIC		
. 0000 ...							MLLIC Debt Participations LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...							Barings California Mortgage Fund IV .....	.CA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...							Barings Umbrella Fund LUX SCSp SICAV RAIF ..	.LUX.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.50.000	MLLIC		
. 0000 ...							Barings Umbrella Fund LUX SCSp SICAV RAIF ..	.LUX.....	NIA.....	C.M. Life Insurance Company	Ownership.....	2.300	MLLIC		
. 0000 ...			82-2285211 ..				Massachusetts Mutual Life Insurance Company			Massachusetts Mutual Life Insurance Company	Ownership.....	.90.000	MLLIC		
. 0000 ...			82-2285211 ..				Calgary Railway Holding LLC .....	.DE.....	NIA.....	C.M. Life Insurance Company	Ownership.....	.10.000	MLLIC		
. 0000 ...			82-3307907 ..				Calgary Railway Holding LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			95-4207717 ..				Cornbrook PRS Holdings LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			95-4207717 ..				Cornerstone California Mortgage Fund I LLC ..	.CA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			95-4207717 ..				Cornerstone California Mortgage Fund II LLC ..	.CA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			95-4207717 ..				Cornerstone California Mortgage Fund III LLC ..	.CA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			56-2630592 ..				Massachusetts Mutual Life Insurance Company			Massachusetts Mutual Life Insurance Company	Ownership.....	.90.000	MLLIC		
. 0000 ...			56-2630592 ..				Cornerstone Fort Pierce Development LLC .....	.DE.....	NIA.....	C.M. Life Insurance Company	Ownership.....	5.900	MLLIC		
. 0000 ...			45-2632610 ..				Cornerstone Fort Pierce Development LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			45-2632610 ..				Cornerstone Permanent Mortgage Fund .....	.MA.....	NIA.....	Barings LLC	Management.....		MLLIC		
. 0000 ...			61-1750537 ..				Cornerstone Permanent Mortgage Fund .....	.MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			61-1750537 ..				Cornerstone Permanent Mortgage Fund II .....	.MA.....	NIA.....	Barings LLC	Management.....		MLLIC		
. 0000 ...			61-1793735 ..				Cornerstone Permanent Mortgage Fund II .....	.MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			20-0348173 ..				Cornerstone Permanent Mortgage Fund IV .....	.MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.28.500	MLLIC		
. 0000 ...			82-2783393 ..				CREA/PPC Venture LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.94.400	MLLIC		
. 0000 ...			04-1590850 ..				Danville Riverwalk Venture, LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MLLIC		
. 0000 ...			04-1590850 ..				DPI Acres Capital SPV LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.50.000	MLLIC		
. 0000 ...			20-3347091 ..				Euro Real Estate Holdings LLC .....	.DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.65.000	MLLIC		

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

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

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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 Location	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 Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
. 0000	20-3347091 ..	.....	.....	.....	Fan Pier Development LLC .....	.. DE.....	..... NIA.....	C.M. Life Insurance Company	Ownership.....	.. 5.900 ...	MMLIC .....	.....	.....
. 0000	04-1590850 ..	.....	.....	.....	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 ..	.....	.....	.....	MM Brookhaven Member LLC .....	.. DE.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 95.000 ...	MMLIC .....	.....	.....
. 0000	04-1590850 ..	.....	.....	.....	MM Kannapolis Industrial Member LLC .....	.. DE.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 82.700 ...	MMLIC .....	.....	.....
. 0000	04-1590850 ..	.....	.....	.....	MM Kannapolis Industrial Member LLC .....	.. DE.....	..... NIA.....	Massachusetts Mutual Ascend	Ownership.....	.. 12.300 ...	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 National Self-Storage Program Member LLC .....	.. DE.....	..... NIA.....	C.M. Life Insurance Company	Ownership.....	.. 98.000 ...	MMLIC .....	.....	.....
. 0000	04-1590850 ..	.....	.....	.....	MM 1400 E 4th Street Member LLC .....	.. DE.....	..... NIA.....	C.M. Life Insurance Company	Ownership.....	.. 96.000 ...	MMLIC .....	.....	.....
. 0000	80-0948028 ..	.....	.....	.....	One Harbor Shore LLC .....	.. DE.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 94.990 ...	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	Salomon Brothers Commercial Mortgage Trust 2001-MM .....	.. DE.....	..... NIA.....	Barings Real Estate Advisers LLC	Influence.....	.....	MMLIC .....	.....	.....
. 0000	81-5273574 ..	.....	.....	.....	Three PW Office Holding LLC .....	.. DE.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 95.100 ...	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.....	.. 95.440 ...	MMLIC .....	.....	.....
. 0000	45-5401109 ..	.....	.....	.....	Washington Gateway Apartments Venture LLC ...	.. DE.....	..... NIA.....	C.M. Life Insurance Company	Ownership.....	.. 4.800 ...	MMLIC .....	.....	.....
. 0000	51-0529328 ..	.....	0000927972 ..	.....	MassMutual Premier Main Street Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 88.800 ...	MMLIC .....	.....	.....
. 0000	26-3229251 ..	.....	0000927972 ..	.....	MassMutual Premier Strategic Emerging Markets Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 27.100 ...	MMLIC .....	.....	.....
. 0000	04-3512593 ..	.....	0000916053 ..	.....	MassMutual Select Fundamental Growth Fund ...	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 3.400 ...	MMLIC .....	.....	.....
. 0000	42-1710935 ..	.....	0000916053 ..	.....	MassMutual Select Mid-Cap Value Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 29.200 ...	MMLIC .....	.....	.....
. 0000	02-0769954 ..	.....	0000916053 ..	.....	MassMutual Select Small Capital Value Equity Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	04-3584140 ..	.....	0000916053 ..	.....	MassMutual Select Small Company Value Fund ..	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 18.200 ...	MMLIC .....	.....	.....
. 0000	82-3347422 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2005 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 5.400 ...	MMLIC .....	.....	.....
. 0000	82-3355639 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2010 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3382389 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2015 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3396442 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2020 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....

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

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

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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 Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
. 0000	82-3417420 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2025 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3430358 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2030 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3439837 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2035 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3451779 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2040 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3472295 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2045 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3481715 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2050 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3502011 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2055 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3525148 ..	.....	0000916053 ..	.....	MassMutual Select T. Rowe Price Retirement 2060 Fund	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 0.000 ...	MMLIC .....	.....	.....
. 0000	82-3533944 ..	.....	0000916053 ..	.....	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.....	.. 95.800 ...	MMLIC .....	.....	.....
. 0000	27-1933389 ..	.....	0000916053 ..	.....	MassMutual RetireSMART 2035 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 3.900 ...	MMLIC .....	.....	.....
. 0000	27-1932769 ..	.....	0000916053 ..	.....	MassMutual RetireSMART 2045 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 8.800 ...	MMLIC .....	.....	.....
. 0000	46-3289207 ..	.....	0000916053 ..	.....	MassMutual RetireSMART 2055 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 22.900 ...	MMLIC .....	.....	.....
. 0000	47-5326235 ..	.....	0000916053 ..	.....	MassMutual RetireSMART 2060 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 43.800 ...	MMLIC .....	.....	.....
. 0000	45-1618155 ..	.....	0000916053 ..	.....	MassMutual 20/80 Allocation Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	45-1618222 ..	.....	0000916053 ..	.....	MassMutual 80/20 Allocation Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 51.600 ...	MMLIC .....	.....	.....
. 0000	03-0532464 ..	.....	0000916053 ..	.....	MassMutual RetireSMART In Retirement Fund ...	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 2.000 ...	MMLIC .....	.....	.....
. 0000	45-1618262 ..	.....	0000916053 ..	.....	MassMutual 40/60 Allocation Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Influence.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	45-1618046 ..	.....	0000916053 ..	.....	MassMutual 60/40 Allocation Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	45-1618046 ..	.....	0000916053 ..	.....	MassMutual ishares 60/40 Allocation Fund ....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 78.400 ...	MMLIC .....	.....	.....
. 0000	04-3212054 ..	.....	0000916053 ..	.....	MassMutual Balanced Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	04-3556992 ..	.....	0000916053 ..	.....	MassMutual Blue Chip Growth Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	04-3277549 ..	.....	0000916053 ..	.....	MassMutual Core Bond Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 100.000 ...	MMLIC .....	.....	.....
. 0000	04-3539084 ..	.....	0000916053 ..	.....	MassMutual Disciplined Growth Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	.. 100.000 ...	MMLIC .....	.....	.....

STATEMENT AS OF MARCH 31, 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	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 Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
. 0000	04-3539083 ..	.....	0000916053 ..	.....	MassMutual Disciplined Value Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	01-0821120 ..	.....	0000916053 ..	.....	MassMutual Diversified Value Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3512590 ..	.....	0000916053 ..	.....	MassMutual Equity Opportunities Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3512589 ..	.....	0000916053 ..	.....	MassMutual Growth Opportunities Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	03-0532475 ..	.....	0000916053 ..	.....	MassMutual Inflation-Protected and Income Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3512596 ..	.....	0000916053 ..	.....	MassMutual Mid Cap Growth Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3464165 ..	.....	0000916053 ..	.....	MassMutual Premier Diversified Bond Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	92-1441036 ..	.....	0000916053 ..	.....	MassMutual RetireSMART by JPMorgan 2065 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	45-1618222 ..	.....	0000916053 ..	.....	MassMutual Select 80/20 Allocation Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3584138 ..	.....	0000916053 ..	.....	MassMutual Select Fundamental Value Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3557000 ..	.....	0000916053 ..	.....	MassMutual Select Overseas Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	92-1427882 ..	.....	0000916053 ..	.....	MassMutual Select T Rowe Price Retirement 2065 Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3464205 ..	.....	0000916053 ..	.....	MassMutual Small Cap Growth Equity Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	04-3424705 ..	.....	0000916053 ..	.....	MassMutual Small Cap Opportunities Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	02-0769954 ..	.....	0000916053 ..	.....	MassMutual Small Cap Value Equity Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....
. 0000	26-0099965 ..	.....	0000916053 ..	.....	MassMutual Strategic Bond Fund .....	.. MA.....	..... NIA.....	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000 ...	MLLIC .....	.....	.....

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

STATEMENT AS OF MARCH 31, 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

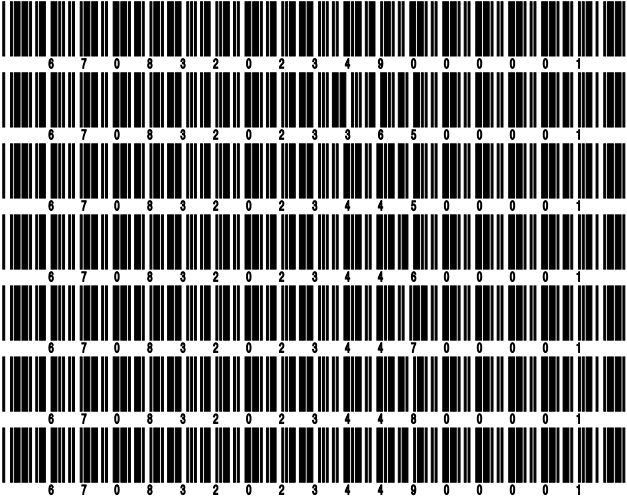
9. Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter.	N/A
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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]



NONE

SCHEDULE A - VERIFICATION

Real Estate

	1	2
	Year to Date	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)		

SCHEDULE B - VERIFICATION

Mortgage Loans

	1	2
	Year to Date	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)		

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	1	2
	Year to Date	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)		

SCHEDULE D - VERIFICATION

Bonds and Stocks

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

STATEMENT AS OF MARCH 31, 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)	53,858,078	3,884,480	1,638,886	6,536,005	62,639,677	0	0	53,858,078
2. NAIC 2 (a)	58,290,239	16,983,954	22,188,888	(983,891)	52,101,414	0	0	58,290,239
3. NAIC 3 (a)	934,102	0	777,301	(1,990)	154,811	0	0	934,102
4. NAIC 4 (a)	1,475,363	0	0	731	1,476,094	0	0	1,475,363
5. NAIC 5 (a)	2,426,970	0	789	(1,974,142)	452,039	0	0	2,426,970
6. NAIC 6 (a)	0	0	1,981,368	2,956,152	974,784	0	0	
7. Total Bonds	116,984,752	20,868,434	26,587,232	6,532,865	117,798,819	0	0	116,984,752
PREFERRED STOCK								
8. NAIC 1	0	0	0	0	0	0	0	
9. NAIC 2	0	0	0	0	0	0	0	
10. NAIC 3	0	0	0	0	0	0	0	
11. NAIC 4	0	0	0	0	0	0	0	
12. NAIC 5	0	0	0	0	0	0	0	
13. NAIC 6	0	0	0	0	0	0	0	
14. Total Preferred Stock	0	0	0	0	0	0	0	0
15. Total Bonds and Preferred Stock	116,984,752	20,868,434	26,587,232	6,532,865	117,798,819	0	0	116,984,752

(a) Book/Adjusted Carrying Value column for the end of the current reporting period includes the following amount of short-term and cash equivalent bonds by NAIC designation:
NAIC 1 \$ 7,437,024 ; NAIC 2 \$ 999,583 ; 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	2
	Year To Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	12,521,902	21,456,915
2. Cost of cash equivalents acquired	16,983,954	135,192,274
3. Accrual of discount	18,639	0
4. Unrealized valuation increase (decrease)		4,977
5. Total gain (loss) on disposals	451	(36)
6. Deduct consideration received on disposals	21,088,339	144,132,229
7. Deduct amortization of premium		0
8. Total foreign exchange change in book/adjusted carrying value		0
9. Deduct current year's other than temporary impairment recognized		0
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	8,436,607	12,521,902
11. Deduct total nonadmitted amounts		0
12. Statement value at end of current period (Line 10 minus Line 11)	8,436,607	12,521,902

Schedule A - Part 2 - Real Estate Acquired and Additions Made

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 MARCH 31, 2023 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

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

1	2	3	4	5	6	7	8	9	10
CUSIP Identification	Description	Foreign	Date Acquired	Name of Vendor	Number of Shares of Stock	Actual Cost	Par Value	Paid for Accrued Interest and Dividends	NAIC Designation, NAIC Designation Modifier and SVO Administrative Symbol
592179-KF-1	Metropolitan Life Global-SECURED .....	.....	.....01/04/2023	JP MORGAN SECURITIES .....	.....	1,002,850	1,000,000 .....	.....0	1.D FE
693475-BK-0	PNC Financial Services G-SENIOR UNSECURE .....	.....	.....01/04/2023	SUNTRUST CAPITAL MAR .....	.....	1,015,440	1,000,000 .....	.....5,057	1.G FE
76209P-AB-9	RGA Global Funding-SECURED .....	.....	.....01/04/2023	WELLS FARGO .....	.....	861,640	1,000,000 .....	.....12,600	1.E FE
60687Y-CL-1	Mizuho Financial Group I-SENIOR UNSECURE	D.....	.....01/04/2023	RBC CAPITAL MARKETS .....	.....	1,004,550	1,000,000 .....	.....16,994	1.G FE
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						3,884,480	4,000,000	34,651	XXX
2509999997. Total - Bonds - Part 3						3,884,480	4,000,000	34,651	XXX
2509999998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX
2509999999. Total - Bonds						3,884,480	4,000,000	34,651	XXX
4509999997. Total - Preferred Stocks - Part 3						0	XXX	0	XXX
4509999998. Total - Preferred Stocks - Part 5						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
5989999999. Total - Common Stocks						0	XXX	0	XXX
5999999999. Total - Preferred and Common Stocks						0	XXX	0	XXX
.....
.....
.....
.....
.....
6009999999 - Totals						3,884,480	XXX	34,651	XXX

STATEMENT AS OF MARCH 31, 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	2	3	4	5	6	7	8	9	10	Change In Book/Adjusted Carrying Value					16	17	18	19	20	21	22		
										11	12	13	14	15									
CUSIP Ident-ification	Description	For-ign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consid-eration	Par Value	Actual Cost	Prior Year Book/ Adjusted Carrying Value	Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor-tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn-ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con-tractual Maturity Date	NAIC Desig-nation, NAIC Desig-nation Modifier and SVO Admini-strative Symbol		
..36207H-VH-7	Ginnie Mae I Pool-POOL #432716 .....	.....	03/01/2023	PAYDOWN .....	.....	.....97	.....97	.....98	.....96	.....0	.....1	.....0	.....1	.....0	.....97	.....0	.....0	.....0	.....1	06/01/2026	1.A
..36208C-Y9-2	Ginnie Mae I Pool-POOL #447236 .....	.....	03/01/2023	PAYDOWN .....	.....	.....33	.....33	.....33	.....33	.....0	.....0	.....0	.....0	.....0	.....33	.....0	.....0	.....0	.....0	06/01/2027	1.A
0109999999. Subtotal - Bonds - U.S. Governments						130	130	131	129	0	1	0	1	0	130	0	0	0	0	1	XXX	XXX	
..31287P-DB-3	Freddie Mac Gold Pool-FG C63727 .....	.....	03/01/2023	PAYDOWN .....	.....	.....84	.....84	.....84	.....79	.....0	.....5	.....0	.....5	.....0	.....84	.....0	.....0	.....0	.....1	02/01/2032	1.A
..31287S-6R-3	Freddie Mac Gold Pool-FG C67180 .....	.....	03/01/2023	PAYDOWN .....	.....	.....89	.....89	.....90	.....87	.....0	.....2	.....0	.....2	.....0	.....89	.....0	.....0	.....0	.....1	05/01/2032	1.A
..31287S-FS-1	Freddie Mac Gold Pool-FG C66477 .....	.....	03/01/2023	PAYDOWN .....	.....	.....120	.....120	.....121	.....115	.....0	.....5	.....0	.....5	.....0	.....120	.....0	.....0	.....0	.....1	04/01/2032	1.A
..31287T-GK-5	Freddie Mac Gold Pool-FG C67402 .....	.....	03/01/2023	PAYDOWN .....	.....	.....35	.....35	.....35	.....32	.....0	.....2	.....0	.....2	.....0	.....35	.....0	.....0	.....0	.....0	05/01/2032	1.A
..31287U-EQ-1	Freddie Mac Gold Pool-FG C68243 .....	.....	03/01/2023	PAYDOWN .....	.....	.....47	.....47	.....47	.....23	.....0	.....24	.....0	.....24	.....0	.....47	.....0	.....0	.....0	.....1	06/01/2032	1.A
..31288H-7A-2	Freddie Mac Gold Pool-FG C78989 .....	.....	03/01/2023	PAYDOWN .....	.....	2,748	2,748	2,820	2,274	0	474	0	474	0	2,748	0	0	0	36	05/01/2033	1.A
..31292G-5V-4	Freddie Mac Gold Pool-FG C00860 .....	.....	03/01/2023	PAYDOWN .....	.....	189	189	190	167	0	22	0	22	0	189	0	0	0	2	09/01/2029	1.A
..31292H-NH-3	Freddie Mac Gold Pool-FG C01292 .....	.....	03/01/2023	PAYDOWN .....	.....	1,379	1,379	1,384	1,091	0	288	0	288	0	1,379	0	0	0	12	02/01/2032	1.A
..31292H-QN-7	Freddie Mac Gold Pool-FG C01361 .....	.....	03/01/2023	PAYDOWN .....	.....	515	515	520	486	0	29	0	29	0	515	0	0	0	4	05/01/2032	1.A
..313398-FC-8	Freddie Mac REMICS-FHR 2333 UZ .....	.....	03/01/2023	PAYDOWN .....	.....	545	545	524	629	0	(84)	0	(84)	0	545	0	0	0	6	07/01/2031	1.A
..31337T-RX-1	Freddie Mac REMICS-FHR 2329 ZA .....	.....	03/01/2023	PAYDOWN .....	.....	4,483	4,483	4,258	4,984	0	(501)	0	(501)	0	4,483	0	0	0	48	06/01/2031	1.A
..31337V-EW-2	Freddie Mac REMICS-FHR 2355 CE .....	.....	03/01/2023	PAYDOWN .....	.....	603	603	597	598	0	6	0	6	0	603	0	0	0	7	09/01/2031	1.A
..313920-CW-8	Fannie Mae REMICS-FMR 2001-31 ZC .....	.....	03/01/2023	PAYDOWN .....	.....	4,845	4,845	4,863	5,275	0	(430)	0	(430)	0	4,845	0	0	0	50	07/01/2031	1.A
..606092-EU-4	Missouri Joint Municipal-REVENUE BONDS .....	.....	01/01/2023	MATURITY .....	.....	1,500,000	1,500,000	1,500,000	1,500,000	0	0	0	0	0	1,500,000	0	0	0	44,835	01/01/2023	1.F FE
..678553-AN-8	Oklahoma City Economic Development Trust .....	.....	03/01/2023	PAYDOWN .....	.....	1,000,000	1,000,000	1,000,000	1,000,000	0	0	0	0	0	1,000,000	0	0	0	0	03/01/2023	1.A
..690353-RX-7	United States Internatio-UNSECURED .....	.....	02/27/2023	SINKING PAYMENT .....	.....	70,305	70,305	70,305	70,313	0	(8)	0	(8)	0	70,305	0	0	0	1,561	02/27/2027	1.A
..92812U-Q3-5	Virginia Housing Develop-REVENUE BONDS .....	.....	03/25/2023	CALL 100 .....	.....	20,926	20,926	20,926	20,886	0	0	0	0	0	20,886	0	39	39	220	12/25/2043	1.A FE
0909999999. Subtotal - Bonds - U.S. Special Revenues						2,606,913	2,606,913	2,606,764	2,607,039	0	(166)	0	(166)	0	2,606,873	0	39	39	46,785	XXX	XXX		
..02665U-AA-3	AMERICAN HOMES 4 RENT-SERIES 2014-SFR2 C .....	.....	03/01/2023	PAYDOWN .....	.....	2,784	2,784	2,863	2,798	0	(14)	0	(14)	0	2,784	0	0	0	20	10/01/2036	1.A FE
..05949T-AX-7	Banc of America Funding -BAFC 2006-1 1A2 .....	.....	03/01/2023	PAYDOWN .....	.....	2,319	2,319	2,268	2,296	0	23	0	23	0	2,319	0	0	0	20	01/01/2036	1.A FM
..12667F-EG-6	Alternative Loan Trust 2-CWALT 2004-J2 3 .....	.....	03/01/2023	PAYDOWN .....	.....	332	332	327	331	0	1	0	1	0	332	0	0	0	5	04/01/2034	1.A FM
..126694-LC-0	CHL Mortgage Pass-Through-CWHL 2005-24 A3 .....	.....	03/01/2023	PAYDOWN .....	.....	789	791	729	779	0	73	0	73	0	789	0	0	0	12	11/01/2035	5.C FM
..16165Y-AV-4	ChaseFlex Trust Multi-C1-CFLX 2007-M1 2F .....	.....	03/01/2023	PAYDOWN .....	.....	783	773	671	508	0	267	0	267	0	783	0	0	0	8	08/01/2037	1.A FM
..40432B-AZ-2	HSI Asset Loan Obligatio-HALO 2007-2 3A6 .....	.....	12/01/2022	PAYDOWN .....	.....	2,326	2,326	2,002	966	0	1,360	0	1,360	0	2,326	0	0	0	30	09/01/2037	3.A FM
..46617F-AA-2	JGWPT XXVIII LLC-HENDR 2013-1A A .....	.....	03/15/2023	PAYDOWN .....	.....	5,988	5,988	5,984	5,983	0	5	0	5	0	5,988	0	0	0	32	04/15/2067	1.A FE
..655844-BL-1	NORFOLK SOUTHERN CORP SR NT .....	.....	02/15/2023	MATURITY .....	.....	976,000	976,000	1,080,739	976,000	0	0	0	0	0	976,000	0	0	0	14,167	02/15/2023	2.A FE
..81721M-AM-1	Diversified Healthcare T-SENIOR UNSECURE .....	.....	03/02/2023	JEFFERIESLLC .....	.....	1,375,000	2,000,000	1,966,240	1,980,723	0	645	0	645	0	1,981,368	0	(606,368)	(606,368)	53,042	02/15/2028	6. FE
..85208N-AD-2	Sprint Spectrum Co LLC -FIRST LIEN .....	.....	03/20/2023	SINKING PAYMENT .....	.....	125,000	125,000	125,000	125,000	0	0	0	0	0	125,000	0	0	0	1,481	03/20/2025	2.A FE
..90783T-AA-8	Union Pacific Railroad C-FIRST LIEN .....	.....	01/02/2023	SINKING PAYMENT .....	.....	19,676	19,676	19,676	19,676	0	0	0	0	0	19,676	0	0	0	532	07/02/2025	1.C FE
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						2,510,997	3,135,989	3,206,499	3,115,060	0	2,360	0	2,360	0	3,117,365	0	(606,368)	(606,368)	69,349	XXX	XXX		
..26156F-AA-1	Dresdner Funding Trust I-CMZB 8.151 06/3 .....	.....	03/24/2023	JEFFERIESLLC .....	.....	712,500	750,000	809,233	775,870	0	(895)	0	(895)	0	774,975	0	(62,475)	(62,475)	45,510	06/30/2031	3.C FE
1309999999. Subtotal - Bonds - Hybrid Securities						712,500	750,000	809,233	775,870	0	(895)	0	(895)	0	774,975	0	(62,475)	(62,475)	45,510	XXX	XXX		
2509999997. Total - Bonds - Part 4						5,830,540	6,493,032	6,622,627	6,498,098	0	1,300	0	1,300	0	6,499,343	0	(668,804)	(668,804)	161,645	XXX	XXX		
2509999998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
2509999999. Total - Bonds						5,830,540	6,493,032	6,622,627	6,498,098	0	1,300	0	1,300	0	6,499,343	0	(668,804)	(668,804)	161,645	XXX	XXX	XXX	
4509999997. Total - Preferred Stocks - Part 4						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	XXX
4509999998. Total - Preferred Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
4509999999. Total - Preferred Stocks						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	XXX
5989999997. Total - Common Stocks - Part 4						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	XXX
5989999998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5989999999. Total - Common Stocks						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	XXX
5999999999. Total - Preferred and Common Stocks						0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	XXX
6009999999 - Totals						5,830,540	XXX	6,622,627	6,498,098	0	1,300	0	1,300	0	6,499,343	0	(668,804)	(668,804)	161,645	XXX	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

E13

SCHEDULE E - PART 2 - CASH EQUIVALENTS

[illegible]