



## 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 .....	110,603,335		110,603,335	111,926,519
2. Stocks:				0
2.1 Preferred stocks .....			0	0
2.2 Common stocks .....			0	0
3. Mortgage loans on real estate:				0
3.1 First liens .....			0	0
3.2 Other than first liens.....			0	0
4. Real estate:				0
4.1 Properties occupied by the company (less \$ encumbrances) .....			0	0
4.2 Properties held for the production of income (less \$ ..... encumbrances) .....			0	0
4.3 Properties held for sale (less \$ encumbrances) .....			0	0
5. Cash (\$ ..... 2,227,070 ), cash equivalents (\$ ..... 6,077,404 ) and short-term investments (\$ ..... 0 ) .....	8,304,474		8,304,474	10,424,093
6. Contract loans (including \$ ..... premium notes) .....	3,888,368		3,888,368	4,246,742
7. Derivatives .....			0	0
8. Other invested assets .....			0	0
9. Receivables for securities .....			0	0
10. Securities lending reinvested collateral assets .....			0	0
11. Aggregate write-ins for invested assets .....			0	0
12. Subtotals, cash and invested assets (Lines 1 to 11) .....	122,796,177	0	122,796,177	126,597,354
13. Title plants less \$ ..... charged off (for Title insurers only) .....			0	0
14. Investment income due and accrued .....	1,038,345		1,038,345	1,431,311
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	125,493	8,720	116,773	115,218
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ ..... earned but unbilled premiums) .....	2,889,564	16,204	2,873,360	2,987,842
15.3 Accrued retrospective premiums (\$ ..... ) and contracts subject to redetermination (\$ ..... ) .....			0	0
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers .....	683,498		683,498	585,667
16.2 Funds held by or deposited with reinsured companies .....			0	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 .....	595,782		595,782	265,051
18.2 Net deferred tax asset .....			0	0
19. Guaranty funds receivable or on deposit .....	30,544		30,544	95,611
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	0
24. Health care (\$ ..... ) and other amounts receivable .....			0	0
25. Aggregate write-ins for other than invested assets .....	.2,172		2,172	0
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25) .....	128,161,575	.24,924	128,136,651	132,078,054
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts .....			0	0
28. Total (Lines 26 and 27)	128,161,575	24,924	128,136,651	132,078,054
<b>DETAILS OF WRITE-INS</b>				
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 .....	.2,172		2,172	0
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)	2,172	0	2,172	0

STATEMENT AS OF SEPTEMBER 30, 2024 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 \$ ..... 54,575,742 less \$ ..... included in Line 6.3 (including \$ ..... Modco Reserve) .....	54,575,742	57,089,689
2. Aggregate reserve for accident and health contracts (including \$ ..... Modco Reserve) .....	52,579	53,012
3. Liability for deposit-type contracts (including \$ ..... Modco Reserve) .....	2,271,917	2,513,696
4. Contract claims:		
4.1 Life .....	3,049,238	3,128,647
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) .....	8,000	8,000
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 .....	36,184	54,063
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 \$ ..... assumed and \$ ..... ceded .....	20,271	45,724
9.4 Interest Maintenance Reserve .....	2,458,647	2,550,194
10. Commissions to agents due or accrued-life and annuity contracts \$ ..... , accident and health \$ ..... and deposit-type contract funds \$ ..... .....		0
11. Commissions and expense allowances payable on reinsurance assumed .....	79,828	79,824
12. General expenses due or accrued .....		
13. Transfers to Separate Accounts due or accrued (net) (including \$ ..... accrued for expense allowances recognized in reserves, net of reinsured allowances) .....		0
14. Taxes, licenses and fees due or accrued, excluding federal income taxes .....	162,080	237,839
15.1 Current federal and foreign income taxes, including \$ ..... on realized capital gains (losses) .....		0
15.2 Net deferred tax liability .....		0
16. Unearned investment income .....	31,032	35,636
17. Amounts withheld or retained by reporting entity as agent or trustee .....	5,029	19,685
18. Amounts held for agents' account, including \$ ..... 482,255 agents' credit balances .....	482,255	450,380
19. Remittances and items not allocated .....	1,799,218	1,356,445
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 .....	825,287	670,786
24.02 Reinsurance in unauthorized and certified (\$ ..... ) companies .....		0
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$ ..... ) reinsurers .....		0
24.04 Payable to parent, subsidiaries and affiliates .....	112,180	88,650
24.05 Drafts outstanding .....		
24.06 Liability for amounts held under uninsured plans .....		
24.07 Funds held under coinsurance .....	44,847,380	46,459,611
24.08 Derivatives .....	0	0
24.09 Payable for securities .....	56,675	0
24.10 Payable for securities lending .....		
24.11 Capital notes \$ ..... and interest thereon \$ ..... .....		
25. Aggregate write-ins for liabilities .....	427,143	426,183
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25) .....	111,300,685	115,268,064
27. From Separate Accounts Statement .....		0
28. Total liabilities (Lines 26 and 27) .....	111,300,685	115,268,064
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 .....		
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) .....	(118,131,921)	(118,157,897)
36. Less treasury stock, at cost:		
36.1 ..... shares common (value included in Line 29 \$ ..... ) .....	0	0
36.2 ..... shares preferred (value included in Line 30 \$ ..... ) .....	0	0
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ ..... in Separate Accounts Statement) .....	14,335,966	14,309,990
38. Totals of Lines 29, 30 and 37 .....	16,835,966	16,809,990
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	128,136,651	132,078,054
<b>DETAILS OF WRITE-INS</b>		
2501. Unclaimed funds .....	427,143	426,183
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)	427,143	426,183
3101. .....		
3102. .....		
3103. .....		
3198. Summary of remaining write-ins for Line 31 from overflow page .....	0	0
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)	0	0
3401. .....		
3402. .....		
3403. .....		
3498. Summary of remaining write-ins for Line 34 from overflow page .....	0	0
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)	0	0

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**SUMMARY OF OPERATIONS**

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	3,447,620	3,564,178	4,545,144
2. Considerations for supplementary contracts with life contingencies			
3. Net investment income	2,575,337	2,621,349	3,607,960
4. Amortization of Interest Maintenance Reserve (IMR)	228,542	221,596	296,941
5. Separate Accounts net gain from operations excluding unrealized gains or losses			
6. Commissions and expense allowances on reinsurance ceded	341,814	351,153	440,663
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	0	0	0
8.3 Aggregate write-ins for miscellaneous income			
9. Totals (Lines 1 to 8.3)	6,593,313	6,758,276	8,890,708
10. Death benefits	4,887,101	4,702,628	5,289,232
11. Matured endowments (excluding guaranteed annual pure endowments)	1,009	4,235	4,400
12. Annuity benefits	1,033,778	569,793	491,214
13. Disability benefits and benefits under accident and health contracts			
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	1,443,957	1,137,958	1,473,163
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	22,713	25,741	33,817
18. Payments on supplementary contracts with life contingencies			
19. Increase in aggregate reserves for life and accident and health contracts	(2,514,380)	(1,439,153)	(1,643,586)
20. Totals (Lines 10 to 19)	4,874,178	5,001,202	5,648,240
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	148,047	154,845	200,215
22. Commissions and expense allowances on reinsurance assumed			
23. General insurance expenses and fraternal expenses	999,078	901,940	1,165,780
24. Insurance taxes, licenses and fees, excluding federal income taxes	250,046	265,336	207,162
25. Increase in loading on deferred and uncollected premiums	(844)	(1,957)	(2,153)
26. Net transfers to or (from) Separate Accounts net of reinsurance			0
27. Aggregate write-ins for deductions	303,433	548,394	748,500
28. Totals (Lines 20 to 27)	6,573,938	6,869,760	7,967,744
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	19,375	(111,484)	922,964
30. Dividends to policyholders and refunds to members	11,646	16,382	21,285
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	7,729	(127,866)	901,679
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	(194,721)	(185,810)	(51,586)
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)	202,450	57,944	953,265
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ 2,375 (excluding taxes of \$ 36,416 transferred to the IMR)	(2,375)	(484,809)	(490,076)
35. Net income (Line 33 plus Line 34)	200,075	(426,865)	463,189
<b>CAPITAL AND SURPLUS ACCOUNT</b>			
36. Capital and surplus, December 31, prior year	16,809,990	16,111,994	16,111,994
37. Net income (Line 35)	200,075	(426,865)	463,189
38. Change in net unrealized capital gains (losses) less capital gains tax of \$			0
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax		(1)	0
41. Change in nonadmitted assets	30,440	38,108	13,958
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	(154,501)	207,813	220,849
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
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	(50,038)	0	0
54. Net change in capital and surplus for the year (Lines 37 through 53)	25,976	(180,945)	697,996
55. Capital and surplus, as of statement date (Lines 36 + 54)	16,835,966	15,931,049	16,809,990
<b>DETAILS OF WRITE-INS</b>			
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	303,433	548,394	748,500
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)	303,433	548,394	748,500
5301. Correction of error, net of tax	(50,038)		
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)	(50,038)	0	0

STATEMENT AS OF SEPTEMBER 30, 2024 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
<b>Cash from Operations</b>			
1. Premiums collected net of reinsurance .....	3,544,586	3,725,340	4,772,297
2. Net investment income .....	2,746,225	2,781,679	3,299,824
3. Miscellaneous income .....	341,814	351,153	440,663
4. Total (Lines 1 to 3) .....	6,632,625	6,858,172	8,512,784
5. Benefit and loss related payments .....	7,568,538	7,076,356	8,884,620
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts .....	0	0	0
7. Commissions, expenses paid and aggregate write-ins for deductions .....	1,711,292	1,877,441	2,476,405
8. Dividends paid to policyholders .....	3,651	4,293	6,032
9. Federal and foreign income taxes paid (recovered) net of \$ .....	38,791	tax on capital gains (losses) .....	174,801 (85,370) 165,228
10. Total (Lines 5 through 9) .....	9,458,282	8,872,720	11,532,285
11. Net cash from operations (Line 4 minus Line 10) .....	(2,825,657)	(2,014,548)	(3,019,501)
<b>Cash from Investments</b>			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds .....	4,775,061	10,339,944	16,416,997
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	450
12.7 Miscellaneous proceeds .....	0	0	0
12.8 Total investment proceeds (Lines 12.1 to 12.7) .....	4,775,061	10,339,944	16,417,447
13. Cost of investments acquired (long-term only):			
13.1 Bonds .....	3,035,743	16,875,068	16,875,068
13.2 Stocks .....	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 .....	25,256	(138,516)	(4,982)
13.7 Total investments acquired (Lines 13.1 to 13.6) .....	3,060,999	16,736,552	16,870,086
14. Net increase (or decrease) in contract loans and premium notes .....	(358,374)	(190,258)	(161,775)
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14) .....	2,072,436	(6,206,350)	(290,864)
<b>Cash from Financing and Miscellaneous Sources</b>			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes .....	0	0	0
16.2 Capital and paid in surplus, less treasury stock .....	0	0	0
16.3 Borrowed funds .....	0	0	0
16.4 Net deposits on deposit-type contracts and other insurance liabilities .....	(272,487)	(244,362)	(285,312)
16.5 Dividends to stockholders .....	0	0	0
16.6 Other cash provided (applied) .....	(1,093,911)	(373,014)	(515,127)
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6) .....	(1,366,398)	(617,376)	(800,439)
<b>RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS</b>			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17) .....	(2,119,619)	(8,838,274)	(4,110,804)
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year .....	10,424,093	14,534,897	14,534,897
19.2 End of period (Line 18 plus Line 19.1) .....	8,304,474	5,696,623	10,424,093

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

--	--	--	--

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

## NOTES TO FINANCIAL STATEMENTS

### **Note 1 - Summary of Significant Accounting Policies**

#### A. Accounting Practices

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

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

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

B, C & D – No significant changes.

### **Note 2 - Accounting Changes and Corrections of Errors**

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

### **Note 3 - Business Combinations and Goodwill**

Not applicable.

### **Note 4 - Discontinued Operations**

Not applicable.

### **Note 5 - Investments**

A, B & C – No significant changes.

#### D. Loan-Backed Securities

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

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flows	OTTI Charge Recognized in Income Statement	Amortized Cost After OTTI	Fair Value at Time of OTTI	Date Reported
40432BAZZ	131,751	105,036	26,715	105,036	101,679	9/30/2024

- (4) The following table shows all loan-backed securities with an unrealized loss:

a. The aggregate amount of unrealized losses:	1. Less than 12 months	\$ -
	2. 12 months or longer	44,949

b. The aggregate related fair value of securities with unrealized losses:	1. Less than 12 months	\$ -
	2. 12 months or longer	360,045

- (5) Based on cash flow projections received from independent sources (which reflect loan to collateral values, subordination, vintage and geographic concentration), implied cash flows inherent in security ratings and analysis of historical payment data, management believes that the Company will recover its cost basis in all securities with unrealized losses at September 30, 2024. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.

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

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

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

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

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

---

## NOTES TO FINANCIAL STATEMENTS

---

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

	General Account	Separate Account
(1) Number of CUSIPS	1	0
(2) Aggregate amount of investment income	\$ 25,256	\$ -

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

**Note 6 - Joint Ventures, Partnerships and Limited Liability Companies**

Not applicable.

**Note 7 - Investment Income**

No significant change.

**Note 8 - Derivative Instruments**

Not applicable.

**Note 9 - Income Taxes**

No significant change.

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

A.,B. & C.

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

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

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

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

**Note 11 - Debt**

Not applicable.

---

## NOTES TO FINANCIAL STATEMENTS

---

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

A., B., C. & D.

The Company did not participate in a defined benefit plan.

E. Defined Contribution Plan

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

F. The Company did not participate in multiemployer plans.

G. The Company did not participate in consolidated or holding company plans.

H. The Company does not accrue for postemployment benefits and compensated absences.

I. The Company does not apply for a subsidy under the Medicare Part D under the Medicare Modernization Act.

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

No significant change.

**Note 14 - Contingencies**

No significant change.

**Note 15 - Leases**

Not applicable.

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

Not applicable.

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

The Company has no reportable transactions.

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

Not applicable.

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

Not applicable.

**Note 20 - Fair Value**

A.

(1) The Company does not have any assets or liabilities measured at fair value or net asset value ("NAV").

(2) The Company does not have any Level 3 securities carried at fair value.

(3) Fair Value Recognition of Transfers between Levels

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

(4) Inputs and Techniques Used in Estimating Fair Value

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

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

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

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

## NOTES TO FINANCIAL STATEMENTS

(5) Derivative Assets and Liabilities – Not applicable.

B. The Company has no additional fair value disclosures.

C. The Company has categorized all the financial assets in the financial statements into the three-level fair value hierarchy as reflected in the following table. See item (4) above for a discussion of each of these three levels.

Type of Financial Instrument	Aggregate	Admitted	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
	Fair Value	Assets					
<b>Financial Assets:</b>							
Bonds:							
U.S. government and agencies	\$ 1,674,811	\$ 1,704,685	\$ -	\$ 1,674,811	\$ -	\$ -	\$ -
States, territories and possessions	4,256,560	2,970,957	-	4,256,560	-	-	-
Special revenue	9,470,669	9,191,901	-	9,470,669	-	-	-
Industrial and miscellaneous	95,789,823	96,735,792	-	95,789,823	-	-	-
Total bonds	\$ 111,191,863	\$ 110,603,335	\$ -	\$ 111,191,863	\$ -	\$ -	\$ -
Cash and cash equivalents	8,304,474	8,304,474	8,304,474	-	-	-	-
Policy loans	3,888,368	3,888,368	-	-	3,888,368	-	-
Total financial assets	\$ 123,384,705	\$ 122,796,177	\$ 8,304,474	\$ 111,191,863	\$ 3,888,368	\$ -	\$ -

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

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

**Note 21 - Other Items**

No significant change.

**Note 22 - Events Subsequent/Other Items of Note**

No significant change.

**Note 23 - Reinsurance**

No significant change.

**Note 24 - Retrospectively Rated Contracts & Contracts Subject to Redetermination**

Not applicable.

**Note 25 - Change in Incurred Losses and Loss Adjustment Expenses**

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

**Note 26 - Intercompany Pooling Arrangements**

Not applicable.

**Note 27 - Structured Settlements**

Not applicable.

**Note 28 - Health Care Receivables**

Not applicable.

**Note 29 - Participating Policies**

No significant change.

**Note 30 - Premium Deficiency Reserves**

Not applicable.

**Note 31 - Reserves for Life Contracts and Annuity Contracts**

No significant change.

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

No significant change.

**Note 33 – Analysis of Life Actuarial Reserves by Withdrawal Characteristics**

No significant change.

**Note 34 - Premiums and Annuity Considerations Deferred and Uncollected**

No significant change.

**Note 35 - Separate Accounts**

Not applicable.

**Note 36 - Loss/Claim Adjustment Expenses**

Not applicable.

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

**PART 1 - COMMON INTERROGATORIES**

**GENERAL**

1.1 Did the reporting entity experience any material transactions requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act? ..... Yes [ ] No [ X ]

1.2 If yes, has the report been filed with the domiciliary state? ..... Yes [ ] No [ ]

2.1 Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity? ..... Yes [ ] No [ X ]

2.2 If yes, date of change: \_\_\_\_\_

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

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

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

3.4 Is the reporting entity publicly traded or a member of a publicly traded group? ..... Yes [ ] No [ X ]

3.5 If the response to 3.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group. \_\_\_\_\_

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

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

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

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

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

6.2 State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released. ..... 12/31/2021

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). ..... 05/23/2023

6.4 By what department or departments?  
 Ohio Department of Insurance .....

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

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

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

7.2 If yes, give full information:  
 \_\_\_\_\_

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

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

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

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

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

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

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

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

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

9.2 Has the code of ethics for senior managers been amended? ..... Yes [ ] No [ 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 .....	\$ ..... 0	\$.....

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

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

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

**STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY**  
**GENERAL INTERROGATORIES**

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

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

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

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

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

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

17.4 If yes, give full information relating thereto:

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

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

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

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

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

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

1 Central Registration Depository Number	2 Name of Firm or Individual	3 Legal Entity Identifier (LEI)	4 Registered With	5 Investment Management Agreement (IMA) Filed
106006 .....	Barings LLC .....	ANDKRHQKPRRG4Q2KLR05 .....	SEC .....	DS.....

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

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

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

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

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

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

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

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

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

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

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

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**GENERAL INTERROGATORIES**

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

**Life and Accident Health Companies/Fraternal Benefit Societies:**

1	Amount
1. Report the statement value of mortgage loans at the end of this reporting period for the following categories:	
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 .....	0.000 %
2.2 A&H cost containment percent .....	%
2.3 A&H expense percent excluding cost containment expenses .....	0.000 %
3.1 Do you act as a custodian for health savings accounts? .....	Yes [ ] No [ X ]
3.2 If yes, please provide the amount of custodial funds held as of the reporting date .....	\$ .....
3.3 Do you act as an administrator for health savings accounts? .....	Yes [ ] No [ X ]
3.4 If yes, please provide the balance of the funds administered as of the reporting date .....	\$ .....
4. Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states? .....	Yes [ X ] No [ ]
4.1 If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity? .....	Yes [ ] No [ ]

**Fraternal Benefit Societies Only:**

- In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done? ..... Yes [ ] No [ ] N/A [ ]
- If no, explain:  
.....
- Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus? ..... Yes [ ] No [ ]
- If yes, what is the date(s) of the original lien and the total outstanding balance of liens that remain in surplus?

Date	Outstanding Lien Amount
.....	.....

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

## **SCHEDULE S - CEDED REINSURANCE**

Showing All New Reinsurance Treaties - Current Year to Date

STATEMENT AS OF SEPTEMBER 30, 2024 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 Active Status (a)	Direct Business Only				7 Deposit-Type Contracts
		2 Life Insurance Premiums	3 Annuity Considerations	4 Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	5 Other Considerations	
1. Alabama .....	AL	26,404	0	0	0	26,404
2. Alaska .....	AK	5,256	0	0	0	5,256
3. Arizona .....	AZ	50,427	300	0	0	50,727
4. Arkansas .....	AR	62,000	0	0	0	62,000
5. California .....	CA	934,078	1,092	0	0	935,170
6. Colorado .....	CO	111,275	0	0	0	111,275
7. Connecticut .....	CT	63,981	0	0	0	63,981
8. Delaware .....	DE	48,004	0	0	0	48,004
9. District of Columbia .....	DC	2,898	0	0	0	2,898
10. Florida .....	FL	414,696	411	42,074	0	457,181
11. Georgia .....	GA	223,848	1,900	610	0	226,358
12. Hawaii .....	HI	74,826	0	0	0	74,826
13. Idaho .....	ID	19,753	0	0	0	19,753
14. Illinois .....	IL	222,756	4,803	0	0	227,559
15. Indiana .....	IN	262,172	1,070	325	0	263,567
16. Iowa .....	IA	95,999	0	252	0	96,241
17. Kansas .....	KS	106,855	3,629	0	0	110,483
18. Kentucky .....	KY	70,737	0	0	0	70,737
19. Louisiana .....	LA	160,444	0	0	0	160,444
20. Maine .....	ME	44,818	0	0	0	44,818
21. Maryland .....	MD	242,979	0	0	0	242,979
22. Massachusetts .....	MA	200,986	0	0	0	200,986
23. Michigan .....	MI	324,063	3,884	438	0	328,385
24. Minnesota .....	MN	473,695	16,400	0	0	490,095
25. Mississippi .....	MS	98,805	480	0	0	99,285
26. Missouri .....	MO	244,519	7,621	0	0	252,140
27. Montana .....	MT	8,854	0	0	0	8,854
28. Nebraska .....	NE	19,692	0	0	0	19,692
29. Nevada .....	NV	70,182	0	0	0	70,182
30. New Hampshire .....	NH	39,095	0	0	0	39,095
31. New Jersey .....	NJ	220,076	0	210	0	220,286
32. New Mexico .....	NM	12,839	0	789	0	13,629
33. New York .....	NY	40,955	0	0	0	40,955
34. North Carolina .....	NC	176,197	300	0	0	176,497
35. North Dakota .....	ND	63,731	0	0	0	63,731
36. Ohio .....	OH	200,515	135	194	0	200,844
37. Oklahoma .....	OK	65,745	0	0	0	65,745
38. Oregon .....	OR	50,450	0	0	0	50,450
39. Pennsylvania .....	PA	248,951	0	329	0	249,280
40. Rhode Island .....	RI	9,201	0	0	0	9,201
41. South Carolina .....	SC	125,149	1,170	0	0	126,319
42. South Dakota .....	SD	11,988	0	0	0	11,988
43. Tennessee .....	TN	190,039	0	525	0	190,564
44. Texas .....	TX	542,636	450	269	0	543,355
45. Utah .....	UT	33,285	71	0	0	33,356
46. Vermont .....	VT	17,089	0	0	0	17,089
47. Virginia .....	VA	176,123	320	0	0	176,443
48. Washington .....	WA	74,937	0	0	0	74,937
49. West Virginia .....	WV	19,642	0	0	0	19,642
50. Wisconsin .....	WI	837,511	29,125	1,585	0	868,220
51. Wyoming .....	WY	10,280	0	0	0	10,280
52. American Samoa .....	AS	0	0	0	0	0
53. Guam .....	GU	0	0	0	0	0
54. Puerto Rico .....	PR	0	0	0	0	0
55. U.S. Virgin Islands .....	VI	0	0	0	0	0
56. Northern Mariana Islands .....	MP	0	0	0	0	0
57. Canada .....	CAN	0	0	0	0	0
58. Aggregate Other Aliens .....	OT	2,350	0	0	0	2,350
59. Subtotal .....	XXX	7,853,779	73,160	47,600	0	7,974,539
90. Reporting entity contributions for employee benefits plans .....	XXX				0	0
91. Dividends or refunds applied to purchase paid-up additions and annuities .....	XXX				0	0
92. Dividends or refunds applied to shorten endowment or premium paying period .....	XXX				0	0
93. Premium or annuity considerations waived under disability or other contract provisions .....	XXX	178,799			0	178,799
94. Aggregate or other amounts not allocable by State .....	XXX	0	0	0	0	0
95. Totals (Direct Business) .....	XXX	8,032,578	73,160	47,600	0	8,153,339
96. Plus Reinsurance Assumed .....	XXX				0	0
97. Totals (All Business) .....	XXX	8,032,578	73,160	47,600	0	8,153,339
98. Less Reinsurance Ceded .....	XXX	4,188,190	32,922	44,851	0	4,265,964
99. Totals (All Business) less Reinsurance Ceded .....	XXX	3,844,388	40,238	2,749	0	3,887,375
DETAILS OF WRITE-INS						
58001. Other Aliens .....	XXX	2,350				2,350
58002. ....	XXX					
58003. ....	XXX					
58998. Summary of remaining write-ins for Line 58 from overflow page .....	XXX	0	0	0	0	0
58999. Totals (Lines 58001 through 58003 plus 58998)(Line 58 above) .....	XXX	2,350	0	0	0	2,350
9401. ....	XXX					
9402. ....	XXX					
9403. ....	XXX					
9498. Summary of remaining write-ins for Line 94 from overflow page .....	XXX	0	0	0	0	0
9499. Totals (Lines 9401 through 9403 plus 9498)(Line 94 above) .....	XXX	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>
<b>MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY</b>	04-1590850	65935	Massachusetts
<b>Direct &amp; Indirect Owned Subsidiaries:</b>			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Mezzanine Investor III, LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
ITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV GP, LLC*	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures US IV, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands
MassMutual Ventures Southeast Asia III LLC	None		Delaware
MMV Digital I LLC	None		Cayman Islands

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Counterpointe Sustainable Advisors LLC	None		Delaware
CSA Intermediate Holdco LLC	None		Delaware
Counterpointe Trust Services LLC	None		Delaware
CP PACE LLC	None		Delaware
Counterpointe Titling Trust	None		Delaware
CSA Employee Services Company LLC	None		Delaware
Counterpointe Sustainable Real Estate II LLC	None		Delaware
Counterpointe Energy Solutions II LLC	None		Delaware
Counterpointe Energy Solutions (CA) II LLC	27-0105644		Delaware
Counterpointe Energy Solutions (FL) II LLC	None		Delaware
Counterpointe Energy Solutions (IL) LLC	None		Delaware
Loop-Counterpointe PACE LLC	None		Delaware
Counterpointe Energy Services LLC	None		Delaware
CSA Incentive Holdco LLC	None		Delaware
Jefferies Finance LLC	27-0105644		Delaware
JFIN GP Adviser LLC	None		Delaware
Jefferies MM Lending LLC	None		Delaware
Green SPE LLC	None		Delaware
Apex Credit Partners LLC	None		Delaware
Apex GP I LLC	None		Delaware
Apex Securitized Income Fund LP	None		Delaware
Jefferies Credit Partners LLC	None		Delaware
Jefferies Credit Management LLC	None		Delaware
JCM GP I LLC	None		Delaware
JCM H-2 Credit Fund GP LLC	None		Delaware
JCP Direct Lending CLO 2022 LLC	None		Delaware
Jefferies Direct Lending Europe SCSp SICAV-RAIF	None		Luxembourg
Jefferies Credit Management Holdings LLC	None		Delaware
JDLF GP (Europe) S.a.r.l	None		Luxembourg
JFAM GP LLC	None		Delaware
JFAM GP LP	None		Delaware
Jefferies Direct Lending Fund C LP	None		Delaware
Jefferies DLF C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund C SPE LLC	None		Delaware
JDLF II GP LLC	None		Delaware
JDLF II GP LP	None		Delaware
Jefferies Direct Lending Fund II C LP	None		Delaware
Jefferies DLF 2 C Holdings LLC	None		Delaware
Jefferies Direct Lending Fund II C SPE LLC	None		Delaware
JDLF III GP LLC*	None		Delaware
JDLF III GP LP*	None		Delaware
Jefferies Direct Lending Fund III C LP	None		Delaware
JCP Direct Lending CLO 2023-1 LLC	None		Delaware

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

## 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>
JCP Direct Lending CLO 2023 Ltd.	None		Jersey Channel Islands
JCP GP I LLC	None		Delaware
Jefferies M Super Private Credit Fund GP LLC	None		Delaware
Jefferies Private Credit BDC Inc.	None		Maryland
JCP Funding 2024 LLC	None		Delaware
Jefferies Senior Lending LLC	None		Delaware
JFIN Revolver Holdings LLC	None		Delaware
JFIN Revolver Holdings II LLC	None		Delaware
JFIN Co-Issuer Corporation	None		Delaware
JFIN Europe GP, S.a.r.l.	None		Luxembourg
Jefferies Finance Europe, S.L.P.	None		Luxembourg
Jefferies Finance Europe, SCSp	None		Luxembourg
Jefferies Finance Business Credit LLC	None		Delaware
JFIN Business Credit Fund I LLC	None		Delaware
JFIN Funding 2021 LLC	None		Delaware
JSPCS MM LLC	None		Delaware
JFIN LC Fund LLC	None		Delaware
JFIN Revolver CLO 2017 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2017-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2018 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2019-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2020 Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2021-V Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-II Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-III Ltd.	None		Cayman Islands
JFIN Revolver CLO 2022-IV Ltd.	None		Cayman Islands
JFIN Revolver CLO 2024-I Ltd.	None		Delaware
JFIN Revolver CLO 2022-IV LLC	None		Cayman Islands
JFIN Revolver Fund, L.P.	None		Delaware
JFIN Revolver Funding 2021 Ltd.	None		Delaware
JFIN Revolver Funding 2021-III Ltd.	None		Delaware
JFIN Revolver Funding 2021-IV Ltd.	None		Delaware
JFIN Revolver Funding 2022-I Ltd.	None		Bermuda
JFIN Revolver SPE1 2022 LLC	None		Delaware
JFIN Revolver SPE3 2022 LLC	None		Delaware
JFIN Revolver SPE4 2022 LLC	None		Delaware
JFIN Revolver SPE4 2022 Ltd.	None		Delaware
JCP Private Loan Management GP LLC	None		Delaware
JCP Private Loan Management LP	None		Delaware
Apex Credit Holdings LLC	None		Delaware

12.2

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

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

### PART 1 – ORGANIZATIONAL CHART

		<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
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		None		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 Investments Holding LLC		None		Delaware
MM Direct Private Investments UK Limited		None		England & Wales
DPI-ACRES Capital LLC		None		Delaware
DPI-ARES Mortgage Lending LLC		None		Delaware
MM Investment Holding		None		Cayman Islands
MMIH Bond Holdings LLC		None		Delaware
MassMutual Asset Finance LLC*		26-0073611		Delaware
MMAF Equipment Finance LLC 2017-B		32-0546197		Delaware
MMAF Equipment Finance LLC 2019-A		83-3722640		Delaware
MMAF Equipment Finance LLC 2019-B		None		Delaware
MMAF Equipment Finance LLC 2020-A		None		Delaware
MMAF Equipment Finance LLC 2020-B		None		Delaware
MMAF Equipment Finance LLC 2021-A		None		Delaware
MMAF Equipment Finance LLC 2022-A		None		Delaware
MMAF Equipment Finance LLC 2022-B		None		Delaware
MMAF Equipment Finance LLC 2023-A		None		Delaware
MMAF Equipment Finance LLC 2024-A		None		Delaware
MML Management Corporation		04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.		04-3548444		Massachusetts

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

## 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 Holding MSC, Inc.	04-3341767		Massachusetts
MML CM LLC	None		Delaware
Blueprint Income LLC	None		New York
Flourish Holding Company LLC	None		Delaware
Flourish Insurance Agency LLC	None		Delaware
Flourish Digital Assets LLC	None		Delaware
Flourish Financial LLC	None		Delaware
Flourish Technologies LLC	None		Delaware
MML Distributors LLC*	04-3356880		Massachusetts
MML Investment Advisers, LLC	None		Delaware
MML Strategic Distributors, LLC	46-3238013		Delaware
The MassMutual Trust Company, FSB	06-1563535		Connecticut
MML Private Placement Investment Company I, LLC	04-1590850		Delaware
MML Private Equity Fund Investor LLC	04-1590850		Delaware
MM Private Equity Intercontinental LLC	04-1590850		Delaware
Pioneers Gate LLC	45-2738137		Delaware
MassMutual Holding LLC	04-2854319		Delaware
Fern Street LLC	37-1732913		Delaware
Low Carbon Energy Holding	None		United Kingdom
Sleeper Street LLC	None		Delaware
Haven Life Insurance Agency, LLC	46-2252944		Delaware
GASL Holdings LLC	None		Delaware
Barings Asset-Based Income Fund (US) LP*	None		Delaware
Barings Perpetual European Direct Lending Fund	None		Luxembourg
Barings Emerging Generation Fund II	88-0916548		Delaware
Babson Capital Global Special Situation Credit Fund 2*	98-1206017		Delaware
Barings Global Real Assets Fund LP*	82-3867745		Delaware
Barings Global Special Situations Credit Fund 3	None		Luxembourg
MassMutual Assignment Company	06-1597528		North Carolina
MassMutual Capital Partners LLC	04-1590850		Delaware
Marco Hotel LLC	46-4255307		Delaware
HB Naples Golf Owner LLC	45-3623262		Delaware
RB Apartments LLC	82-4411267		Delaware
Intermodal Holding II LLC	None		Delaware
MassMutual Ventures Holding LLC	None		Delaware
Crane Venture Partners LLP	None		United Kingdom
MassMutual Ventures Management LLC	None		Delaware
MassMutual Ventures SEA Management Private Limited	None		Singapore
MMV UK/SEA Limited	None		England & Wales
MassMutual Ventures India Private Limited	None		India
MassMutual Ventures Southeast Asia I LLC	None		Delaware
MassMutual Ventures Southeast Asia II LLC	None		Delaware
MassMutual Ventures UK LLC	None		Delaware

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MassMutual Ventures US I LLC	47-1296410		Delaware
MassMutual Ventures US II LLC	None		Delaware
MassMutual Ventures US III LLC	None		Delaware
MM Catalyst Fund LLC	None		Delaware
MM Catalyst Fund II LLC	None		Delaware
MM Rothesay Holdco US LLC	04-1590850		Delaware
Rothesay Limited	None		United Kingdom
Rothesay Mortgages Limited	None		United Kingdom
Rothesay Life Plc	None		United Kingdom
Rothesay MA No.1 Limited	None		United Kingdom
Rothesay MA No.3 Limited	None		United Kingdom
Rothesay MA No.4 Limited	None		United Kingdom
LT Mortgage Financing Limited	None		United Kingdom
Rothesay Property Partnership 1 LLP	None		United Kingdom
Rothesay Foundation	None		United Kingdom
Rothesay Pensions Management Limited	None		United Kingdom
Rothesay Asset Management UK Limited	None		United Kingdom
Rothesay Asset Management Australia Pty Ltd	None		Australia
Rothesay Asset Management North America LLC	None		Delaware
MML Investors Services, LLC	04-1590850		Massachusetts
MML Insurance Agency, LLC	04-1590850		Massachusetts
MMLISI Financial Alliances, LLC	41-2011634		Delaware
LifeScore Labs, LLC	47-1466022		Massachusetts
MM Asset Management Holding LLC	45-4000072		Delaware
Barings LLC	51-0504477		Delaware
Baring Asset Management (Asia) Holdings Limited	98-0524271		Hong Kong, Special Administrative Region of China
Baring International Fund Managers (Bermuda) Limited	98-0457465		Bermuda
Baring Asset Management (Asia) Limited	98-0457463		Hong Kong, Special Administrative Region of China
Baring Asset Management Korea Limited	None		Korea
Barings Investment Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Barings Overseas Investment Fund Management (Shanghai) Limited	None		Hong Kong, Special Administrative Region of China
Baring SICE (Taiwan) Limited	98-0457707		Taiwan ROC
Barings Singapore Pte. Ltd.	None		Singapore
Barings Japan Limited	98-0236449		Japan
Barings Australia Holding Company Pty Ltd	None		Australia
Barings Australia Pty Ltd	None		Australia
Barings Australia Real Estate Holdings Pty Ltd	None		Australia
Barings Australia Real Estate Pty Ltd	14-0045656		Australia
Barings Australia Property Partners Holdings Pty Ltd	98-0457456		Australia
Barings Australia Asset Management Pty Ltd	None		Australia
Barings Australia Property Partners Pty Ltd	None		Australia
Barings Australia Structured Finance Holdings Pty Ltd	None		Australia
Barings Australia Structured Finance Pty Ltd	None		Australia

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Gryphon Capital Partners Pty Ltd	None		Australia
Gryphon Capital Management Pty Ltd	None		Australia
Gryphon Capital Investments Pty Ltd	None		Australia
Barings Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC <sup>□</sup>	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
Baring European Direct Lending 1 GP LLP	None		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring Fund Managers Limited	98-0457586		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
Barings Core Fund Feeder I GP S.à.r.l.	None		Luxembourg
Barings Investment Fund (LUX) GP S.à.r.l.	None		Luxembourg
Barings BME GP S.à.r.l.	None		United Kingdom
Barings GPC GP S.à.r.l.	None		Luxembourg
Barings European Core Property Fund GP S.à.r.l	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à.r.l	None		Luxembourg
PREIF Holdings Limited Partnership	None		United Kingdom
BMC Holdings DE LLC	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		Delaware
Remington L & W Holdings LLC	81-4065378		Delaware
Aland Royalty GP, LLC	None		Delaware
Alaska Future Fund GP, LLC	None		Delaware
BAI Funds SLP, LLC	None		Delaware
BAI GP, LLC	None		Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None		Delaware
Barings CMS Fund GP, LLC	None		Delaware

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Barings Infiniti Fund Management LLC	None		Delaware
Barings New Jersey Emerging Manager Program GP, LLC	None		Delaware
Barings Hotel Opportunity Venture I GP, LLC	None		Delaware
Baring Investment Series LLC	None		Delaware
Barings Emerging Generation Fund GP, LLC	None		Delaware
Barings Emerging Generation Fund GP II, LLC	None		Delaware
Barings EPLF4 Rated Feeder, L.P.	None		Delaware
Barings ERS PE Emerging Manager III GP, LLC	None		Delaware
Barings FC III LLC	None		Delaware
Barings Global Investment Funds (U.S.) Management LLC	04-1590850		Delaware
Barings CLO Investment Partners GP, LLC	None		Delaware
Barings Core Property Fund GP LLC	None		Delaware
Barings DAPPLF1 Rated Feeder, G.P.	None		Delaware
Barings DAPPLF1 Rated Feeder, L.P.	None		Delaware
Barings Direct Lending GP Ltd.	None		Cayman Islands
Barings Diversified Residential Fund GP LLC	None		Delaware
Barings Diversified Residential Fund LP	None		Delaware
Barings Global Energy Infrastructure Advisors, LLC	None		Delaware
Barings Capital Solutions Perpetual Fund GP LLC	None		Delaware
Barings Centre Street CLO Equity Partnership GP, LLC	None		Delaware
Barings Centre Street CLO Equity Partnership LP	None		Delaware
Barings Global Real Assets Fund GP, LLC	None		Delaware
Barings GPSF LLC	None		Delaware
Barings North American Private Loan Fund Management, LLC	None		Delaware
Barings North American Private Loan Fund II Management, LLC	None		Delaware
Barings North American Private Loan Fund III Management, LLC	None		Delaware
Barings Global Special Situations Credit Fund 4 GP (Delaware) LLC	None		Delaware
Barings - MM Revolver Fund GP LLC	None		Delaware
Barings Real Estate European Value Add Fund II Feeder LLC	None		Cayman Islands
Barings SEM GP LLC	None		Delaware
BMT RE Debt Fund GP LLC	None		Delaware
Barings Small Business Fund LLC	84-5063008		Delaware
Barings TYIDF2 Rated Feeder GP LLC	None		Delaware
Barings TYIDF2 Rated Feeder, L.P.	None		Delaware
Barings Active Passive Equity Direct EAFFE LLC	None		Delaware
BCLF GP LLC	None		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
BHOVI Incentive LLC	None		Delaware
BIG Real Estate Fund GP LLC	None		Delaware
BIG Real Estate Incentive I LLC	None		Delaware
BIG Real Estate Incentive II LLC	None		Delaware
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	None		Delaware

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
CPF Springing Member, LLC	None		Delaware
CREA-MA Reorganization Trust	None		Delaware
CREF X GP LLC	None		Delaware
Great Lakes III GP, LLC	04-1590850		Delaware
Lake Jackson LLC	None		Delaware
Barings Emerging Markets Blended Fund I GP, LLC	None		Delaware
Barings EPLF4 Rated Feeder GP LLC	None		Delaware
Mezzco III LLC	41-2280126		Delaware
Mezzco IV LLC	80-0920285		Delaware
Mezzco Australia II LLC	None		Delaware
RECSA-NY GP LLC	None		Delaware
Barings CLO 2022-I	98-1624360		Cayman Island
Barings CLO 2022-II	None		Cayman Island
Amherst Long Term Holdings, LLC	None		Delaware
Enroll Confidently, Inc.	None		Delaware
MassMutual International LLC	04-3313782		Delaware
MassMutual Solutions LLC	None		Delaware
Haven Technologies Asia Limited	None		Hong Kong
Yunfeng Financial Group Limited	None		Hong Kong
MassMutual External Benefits Group LLC	27-3576835		Delaware
MM Vine Street LLC	None		Delaware
Stillings Street LLC	None		Delaware
5301 Wisconsin Avenue Associates, LLC	None		District of Columbia
5301 Wisconsin Avenue GP, LLC	None		Delaware
<b>Other Affiliates &amp; Funds:</b>			
100 w. 3rd Street LLC	04-1590850		Delaware
300 South Tryon Hotel LLC	82-2432216		Delaware
300 South Tryon LLC	04-1590850		Delaware
Almack Mezzanine Fund II Unleveraged LP	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 Construction Lending Fund LP	None		Delaware
Barings Emerging Generation Fund II LP	None		Delaware
Barings Emerging Generation Fund, LP	84-3784245		Delaware
Barings Emerging Markets Corporate Bond Fund	None		Ireland
Barings Hotel Opportunity Venture I LP	None		Delaware
Barings Miller Investment Trust	04-1590850		Australia
Barings Real Estate Debt Income Fund LP	85-3449260		Delaware
Barings Real Estate European Value Add I SCSp	None		Luxembourg
Barings Small Business Fund, L.P.	None		Delaware
Barings-MM Revolver Fund LP*	None		Delaware
Barings U.S. High Yield Fund	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 Domicile</u>
Beauty Brands Acquisition LLC	None		Delaware
Beauty Brands Acquisition Intermediate LLC	None		Delaware
Forma Brands, LLC	None		Delaware
Cornerstone Permanent Mortgage Fund LLC	45-2632610		Massachusetts
CREA Ridge Apartments, LLC	None		Delaware
Euro Real Estate Holdings Herleshausen LLC	None		Delaware
London Office JV Holdings LLC	None		Delaware
Riverwalk MM Member, LLC	None		Delaware
Aland Royalty Holdings LP	None		Delaware
Chassis Acquisition Holding LLC	81-2244465		Delaware
CRA Aircraft Holding LLC	81-4258759		Delaware
EIP Holdings I, LLC	None		Delaware
Red Lake Ventures, LLC	46-5460309		Delaware
Validus Holding Company LLC	46-0687392		Delaware
SBNP SIA II LLC	04-1590850		Delaware
SBNP SIA III LLC	None		Delaware
MM Speedway El Paso Member LLC	None		Delaware
Barings European Real Estate Debt Income Fund	None		Luxembourg
Babson Capital Loan Strategies Fund, L.P.*	37-1506417		Delaware
Barings US High Yield Bond Fund	None		Ireland
Babson CLO Ltd. 2015-I	None		Cayman Islands
Babson CLO Ltd. 2015-II	None		Cayman Islands
Babson CLO Ltd. 2016-II	None		Cayman Islands
Barings CLO 2018-III	None		Cayman Islands
Barings CLO 2018-IV	None		Cayman Islands
Barings CLO 2019-II	None		Cayman Islands
Barings CLO 2019-III	98-1473665		Cayman Islands
Barings CLO 2019-IV	None		Cayman Islands
Barings CLO 2020-I	None		Cayman Islands
Barings CLO 2020-III	None		Cayman Islands
Barings CLO 2020-IV	None		Cayman Islands
Barings CLO 2021-I	None		Cayman Islands
Barings CLO 2021-II	None		Cayman Islands
Barings CLO 2021-III	None		Cayman Islands
Barings CLO 2024-II	None		Cayman Islands
Babson Euro CLO 2014-I BV	None		Netherlands
Babson Euro CLO 2015-I BV	None		Netherlands
Barings Euro CLO 2019-I	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

\*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

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

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MM MD1 Station Member LLC*	04-1590850		Delaware
MM MD2 Station Member LLC*	04-1590850		Delaware
MMV Climate Technology Fund GP*	04-1590850		Delaware
MM REED District Landco Member LLC	None		Delaware
MM Subline Borrower LLC	04-1590850		Delaware
SBNP SIA IV LLC	None		Delaware
Washington Pine LLC	04-1590850		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
Trailsid MM Member LLC*	04-1590850		Delaware
Washington Gateway Three LLC	32-0574045		Delaware
Washington Gateway Two LLC*	83-1325764		Delaware
MALIC Debt Participations LLC	None		Delaware
<b>Barings Affiliates &amp; Funds:</b>			
Babson Capital Loan Strategies Master Fund LP	None		Cayman Islands
Barings China Aggregate Bond Private Securities Investment Fund	None		Peoples Republic of China
Barings Global High Yield Fund	47-3790192		Massachusetts
Great Lakes II LLC*	71-1018134		Delaware
Wood Creek Venture Fund LLC	04-1590850		Delaware
<b>Barings Real Estate Affiliates &amp; Funds:</b>			
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 II LLC	61-1750537		Massachusetts
Cornerstone Permanent Mortgage Fund III LLC	35-2531693		Massachusetts
Cornerstone Permanent Mortgage Fund IV LLC	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 - Avalon Spain	04-1590850		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 Ascend Mtg. Lending LLC	04-1590850		Delaware
MM Kannapolis Industrial Member LLC*	04-1590850		Delaware

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

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

### PART 1 – ORGANIZATIONAL CHART

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MM East South Crossing Member LLC	04-1590850		Delaware
MM Horizon Savannah Member LLC*	04-1590850		Delaware
MM Horizon Savannah Member II LLC*	04-1590850		Delaware
MM Ironhead Commerce Center	04-1590850		Delaware
MM National Self-Storage Program Member LLC	04-1590850		Delaware
MM 1400 E 4th Street Member LLC	04-1590850		Delaware
MM 1370 AVE OF AM LLC	04-1590850		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
Paco France Logistics LLC	04-1590850		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Trailside MM Member II LLC	04-1590850		Delaware
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
West 37th Street Hotel LLC*	88-3861481		Delaware
<b>MassMutual Premier Funds:</b>			
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
<b>MassMutual Select Funds:</b>			
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
<b>MML Series Investment Funds:</b>			
MML Series International Equity Fund	46-4257056		Massachusetts
<b>MML Series Investment Funds II:</b>			
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
<b>MassMutual RetireSMART Funds:</b>			
MassMutual RetireSMART 2035 Fund	27-1933380		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207		Massachusetts

## 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 RetireSMART 2060 Fund	47-5326235		Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155		Massachusetts
MML SER INV T FD II ISHARES 80/20 ALLOCATION FD	45-1618222		Massachusetts
MassMutual RetireSMART In Retirement Fund	03-0532464		Massachusetts
MassMutual 40/60 Allocation Fund	45-1618262		Massachusetts
MassMutual 60/40 Allocation Fund	45-1618046		Massachusetts
MassMutual ishares 60/40 Allocation Fund	45-1618046		Massachusetts
MassMutual Balanced Fund	04-3212054		Massachusetts
MassMutual Blue Chip Growth Fund	04-3556992		Massachusetts
MassMutual Core Bond Fund	04-3277549		Massachusetts
MassMutual Disciplined Growth Fund	04-3539084		Massachusetts
MassMutual Disciplined Value Fund	04-3539083		Massachusetts
MassMutual Diversified Value Fund	01-0821120		Massachusetts
MassMutual Equity Opportunities Fund	04-3512590		Massachusetts
MassMutual Inflation-Protected and Income Fund	03-0532475		Massachusetts
MassMutual Mid Cap Growth Fund	04-3512596		Massachusetts
MassMutual Premier Diversified Bond Fund	04-3464165		Massachusetts
MassMutual RetireSMART by JPMorgan 2065 Fund	92-1441036		Massachusetts
MassMutual Select 80/20 Allocation Fund	45-1618222		Massachusetts
MassMutual Select Overseas Fund	04-3557000		Massachusetts
MassMutual Select T Rowe Price Retirement 2065 Fund	92-1427882		Massachusetts
MassMutual Small Cap Growth Equity Fund	04-3464205		Massachusetts
MassMutual Small Cap Opportunities Fund	04-3424705		Massachusetts
MassMutual Small Cap Value Equity Fund	02-0769954		Massachusetts
MassMutual Clinton Municipal Credit Opportunities Fund	93-4168848		Massachusetts
MassMutual Clinton Municipal Fund	93-4190918		Massachusetts
MassMutual Clinton Short-Term Municipal Fund	93-4193313		Massachusetts

12.13

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-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 Per-cent-age	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
.0435	Massachusetts Mut Life Ins Co .....	65935	04-1590850	3848388			Massachusetts Mutual Life Insurance Company (MMLIC) .....	.. MA.....	.. UIP.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0435	Massachusetts Mut Life Ins Co .....	93432	06-1041383				C.M. Life Insurance Company .....	.. CT.....	.. IA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0435	Massachusetts Mut Life Ins Co .....	70416	43-0581430				MML Bay State Life Insurance Company .....	.. CT.....	.. IA.....	C.M. Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						CML Special Situations Investor LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						CM Life Mortgage Lending LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						CML Mezzanine Investor III, LLC .....	.. DE.....	.. NIA.....	C.M. Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						CML Global Capabilities LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MM Global Capabilities I LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MassMutual Global Business Services India LLP .....	.. IND.....	.. NIA.....	MM Global Capabilities I LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MM Global Capabilities (Netherlands) B.V. .....	.. NLD.....	.. NIA.....	MM Global Capabilities I LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MassMutual Global Business Services Romania S.R.L. .....	.. ROU.....	.. NIA.....	MM Global Capabilities (Netherlands) B.V. .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MM Global Capabilities II LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MM Global Capabilities III LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						MM/Barings Multifamily TEBS 2020 LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....		04-1590850				Berkshire Way LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						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.....		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 Timbrelands I, LLC .....	.. DE.....	.. NIA.....	Lyme Adirondack Forest Company, LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						Lyme Adirondack Timbrelands II, LLC .....	.. DE.....	.. NIA.....	Lyme Adirondack Forest Company, LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						Lyme Adirondack Timber Sales, LLC .....	.. DE.....	.. NIA.....	Lyme Adirondack Forest Company, LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....		04-1590850				MSP-SC, LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....		04-1590850				Insurance Road LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....		04-1590850				MassMutual Trad Private Equity LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....		04-1590850				MassMutual Intellectual Property LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						Trad Investments I LLC .....	.. DE.....	.. NIA.....	Insurance Road LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						ITPSHolding LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						HITPS LLC .....	.. DE.....	.. NIA.....	ITPS Holding LLC .....	Ownership.....	100.000 ..	MMLIC .....		
.0000	.....						EM Opportunities LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ..	MMLIC .....		
.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.....	99.000 ..	MMLIC .....		
.0000	.....						MassMutual Ventures US IV GP, LLC .....	.. DE.....	.. NIA.....	Massachusetts Mutual Ascend .....	Ownership.....	1.000 ..	MMLIC .....		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 ...						MassMutual Ventures US IV, L.P. ....	..DE....	NIA....	MassMutual Ventures US IV GP, LLC ....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MassMutual Ventures US IV LLC .....	..DE....	NIA....	MassMutual Ventures US IV, L.P. .... Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MassMutual Ventures Europe/APAC I GP, LLC .....	..DE....	NIA....	MassMutual Ventures Europe/APAC I GP, LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MassMutual Ventures Europe/APAC I GP, L.P. ....	.CYM....	NIA....	MassMutual Ventures Europe/APAC I GP, LLC MassMutual Ventures Europe/APAC I GP, L.P. ....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MassMutual Ventures Europe/APAC I L.P. ....	.CYM....	NIA....		Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MassMutual Ventures Southeast Asia III LLC .....	..DE....	NIA....	MassMutual Ventures Europe/APAC I L.P. .... MassMutual Ventures Southeast Asia III LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MMV Digital I LLC .....	.CYM....	NIA....	Massachusetts Mutual Life Insurance	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Sustainable Advisors LLC .....	..DE....	NIA....	Counterpointe Sustainable Advisors LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						CSA Intermediate Holdco LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Trust Services LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						CP PACE LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Titling Trust .....	..DE....	NIA....	CP PACE LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						CSA Employee Services Company LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Sustainable Real Estate II LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Energy Solutions II LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Energy Solutions (CA) II LLC .....	..DE....	NIA....	Counterpointe Energy Solutions II LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Energy Solutions (FL) II LLC .....	..DE....	NIA....	Counterpointe Energy Solutions II LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Energy Solutions (IL) LLC .....	..DE....	NIA....	Counterpointe Energy Solutions II LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Loop-Counterpointe PACE LLC .....	..DE....	NIA....	Counterpointe Energy Solutions (IL) LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Counterpointe Energy Services LLC .....	..DE....	NIA....	CSA Intermediate Holdco LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						CSA Incentive Holdco LLC .....	..DE....	NIA....	Counterpointe Sustainable Advisors LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Jefferies Finance LLC .....	..DE....	NIA....	Company .....	Ownership.....	.50.000 ...	MMLIC .....			1
.0000 ...						JFIN GP Adviser LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Jefferies MM Lending LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Green SPE LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Apex Credit Partners LLC .....	..DE....	NIA....	Green SPE LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Apex GP I LLC .....	..DE....	NIA....	Apex Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Apex Securitized Income Fund LP .....	..DE....	NIA....	Apex GP I LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Jefferies Credit Partners LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Jefferies Credit Management LLC .....	..DE....	NIA....	Jefferies Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						JCM GP I LLC .....	..DE....	NIA....	Jefferies Credit Management LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						JCM H-2 Credit Fund GP LLC .....	..DE....	NIA....	Jefferies Credit Management 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 ...						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 .....			

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						Jefferies Direct Lending Fund II C LP .....	..DE....	NIA....	JDLF II GP LP .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Jefferies DLF 2 C Holdings LLC .....	..DE....	NIA....	Jefferies Direct Lending Fund II C LP .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Jefferies Direct Lending Fund II C SPE LLC .....	..DE....	NIA....	Jefferies DLF 2 C Holdings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JDLF IIII GP LLC .....	..DE....	NIA....	Jefferies Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JDLF IIII GP LP .....	..DE....	NIA....	JDLF IIII GP LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Jefferies Direct Lending Fund IIII C LP .....	..DE....	NIA....	JDLF IIII GP LP .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JCP Direct Lending CLO 2023-1 LLC .....	..DE....	NIA....	Jefferies Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JCP Direct Lending CLO 2023 Ltd. ....	..J.EY....	NIA....	JCP Direct Lending CLO 2023 Ltd. ....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JCP GP I LLC .....	..DE....	NIA....	Jefferies Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
						Jefferies M Super Private Credit Fund GP LLC .....	..DE....	NIA....	Jefferies Credit Partners LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Jefferies Private Credit BDC Inc. ....	..MD....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JCP Funding 2024 LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Jefferies Senior Lending LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver Holdings LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver Holdings II LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Co-Issuer Corporation .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Europe GP, S.a.r.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						JSPCS MM LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN LC Fund LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2017 Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2017-II Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2017-III Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2018 Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2019 Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2019-II Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2020 Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2021-II Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2021-V Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2022-II Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2022-III Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2022-IV Ltd. ....	..C.YM....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2024-I Ltd. ....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JFIN Revolver CLO 2022-IV LLC .....	..C.YM....	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. ....	..B.MU....	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						JFIN Revolver SPE4 2022 Ltd. ....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						JCP Private Loan Management GP LLC .....	..DE....	NIA....	Jefferies Finance LLC .....	Ownership.....	100.000 ...	MMLIC .....			

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tion- ship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						JCP Private Loan Management LP	..DE...	NIA...	JCP Private Loan Management GP LLC	Ownership...	100.000 ...	MMLIC			
.0000						Apex Credit Holdings LLC	..DE...	NIA...	Jefferies Finance LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2012 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2013 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2014 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2014-II Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2015 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2015-II Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	.85.000 ...	MMLIC			
.0000						JFIN CLO 2016 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2017 Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						JFIN CLO 2017-II Ltd.	..CYM...	NIA...	Apex Credit Holdings LLC	Ownership...	100.000 ...	MMLIC			
.0000						Tomorrow Parent, LLC	..DE...	NIA...	Jefferies Finance LLC	Ownership...	100.000 ...	MMLIC			
.0000						Custom Ecology Holdco, LLC	..DE...	NIA...	Jefferies Finance LLC	Ownership...	100.000 ...	MMLIC			
.0000									Massachusetts Mutual Life Insurance						
.0435	Massachusetts Mut Life Ins Co	63312	86-2294635			Glidepath Holdings Inc.	..DE...	UIP...	Company	Ownership...	100.000 ...	MMLIC			
.0000			13-1935920			MassMutual Ascend Life Insurance Company	..OH...	UIP...	Glidepath Holdings Inc.	Ownership...	100.000 ...	MMLIC			
.0435	Massachusetts Mut Life Ins Co	93661	31-1422717			AAG Insurance Agency, LLC	..KY...	NIA...	MassMutual Ascend Life Insurance Company	Ownership...	100.000 ...	MMLIC			
.0000			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			26-3260520			MM Ascend Mortgage Lending LLC	..OH...	NIA...	MassMutual Ascend Life Insurance Company	Ownership...	100.000 ...	MMLIC			
.0435	Massachusetts Mut Life Ins Co	67083	45-0252531			Manhattan National Holding, LLC	..OH...	UDP...	MassMutual Ascend Life Insurance Company	Ownership...	100.000 ...	MMLIC			
.0000						Manhattan National Life Insurance Company	..OH...	RE...	Manhattan National Holding LLC	Ownership...	100.000 ...	MMLIC			
.0000									Massachusetts Mutual Life Insurance						
.0000			04-1590850			MassMutual Mortgage Lending LLC	..DE...	NIA...	Company	Ownership...	100.000 ...	MMLIC			
.0000						MM Copper Hill Road LLC	..DE...	NIA...	Massachusetts Mutual Life Insurance	Ownership...	100.000 ...	MMLIC			
.0000						MMV CTF I GP LLC	..DE...	NIA...	Company	Ownership...	100.000 ...	MMLIC			
.0000						MassMutual Ventures Climate Technology Fund I LP	..DE...	NIA...	Massachusetts Mutual Life Insurance	Ownership...	100.000 ...	MMLIC			
.0000									MMV CTF I GP LLC	Ownership...	100.000 ...	MMLIC			
.0000						MM Direct Private Investments Holding LLC	..DE...	NIA...	Massachusetts Mutual Life Insurance	Ownership...	100.000 ...	MMLIC			
.0000						MM Direct Private Investments UK Limited	..GBR...	NIA...	MM Direct Private Investments Holding LLC	Ownership...	100.000 ...	MMLIC			
.0000						DPI-ACRES Capital LLC	..DE...	NIA...	Massachusetts Mutual Life Insurance	Ownership...	100.000 ...	MMLIC			
.0000						DPI-ARES Mortgage Lending LLC	..DE...	NIA...	Massachusetts Mutual Life Insurance	Ownership...	100.000 ...	MMLIC			
.0000						MM Investment Holding	..CYM...	NIA...	Company	Ownership...	100.000 ...	MMLIC			
.0000						MMIH Bond Holdings LLC	..DE...	NIA...	MM Investment Holding	Ownership...	.99.610 ...	MMLIC			
.0000			26-0073611			MassMutual Asset Finance LLC	..DE...	NIA...	C.M. Life Insurance Company	Ownership...	.400.000 ...	MMLIC			
.0000			26-0073611			MassMutual Asset Finance LLC	..DE...	NIA...	MM Investment Holding	Ownership...	.99.600 ...	MMLIC			
.0000			32-0546197			MMAF Equipment Finance LLC 2017-B	..DE...	NIA...	MassMutual Asset Finance LLC	Ownership...	100.000 ...	MMLIC			
.0000			83-3722640			MMAF Equipment Finance LLC 2019-A	..DE...	NIA...	MassMutual Asset Finance LLC	Ownership...	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			

## STATEMENT AS OF SEPTEMBER 30, 2024 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						MMAF Equipment Finance LLC 2023-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000						MMAF Equipment Finance LLC 2024-A		.DE.	.NIA.	MassMutual Asset Finance LLC	Ownership	100.000	MMLIC		
.0000		04-2443240				MML Management Corporation		.MA.	.NIA.	MU 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 Holding Company LLC		.DE.	.NIA.	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
.0000						Flourish Insurance Agency LLC		.DE.	.NIA.	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
.0000						Flourish Digital Assets LLC		.DE.	.NIA.	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
.0000						Flourish Financial LLC		.DE.	.NIA.	Flourish Holding Company LLC	Ownership	100.000	MMLIC		
.0000						Flourish Technologies LLC		.DE.	.NIA.	Flourish Holding Company LLC	Ownership	100.000	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
.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		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		46-2252944				Haven Life Insurance Agency, LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	100.000	MMLIC		
.0000		82-2932156				GASL Holdings LLC		.DE.	.NIA.	MassMutual Holding LLC	Ownership	11.300	MMLIC		
.0000		82-2932156				GASL Holdings LLC		.DE.	.NIA.	Barings LLC	Board		MMLIC		
.0000		36-4868350				Barings Asset-Based Income Fund (US) LP		.DE.	.NIA.	MassMutual Holding LLC	Ownership/Influence	11.500	MMLIC		
.0000		36-4868350				Barings Asset-Based Income Fund (US) LP		.DE.	.NIA.	C.M. Life Insurance Company	Ownership/Influence	1.110	MMLIC		
.0000		36-4868350				Barings Asset-Based Income Fund (US) LP		.DE.	.NIA.	Barings LLC	Management		MMLIC		
.0000						Barings Perpetual European Direct Lending Fund		.LUX.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.82.130	MMLIC		
.0000						Barings Perpetual European Direct Lending Fund		.LUX.	.NIA.	Barings LLC	Influence		MMLIC		
.0000						Barings Emerging Generation Fund II		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence	.39.700	MMLIC		
.0000						Barings Emerging Generation Fund II		.DE.	.NIA.	Barings LLC	Influence		MMLIC		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 .....			98-1206017				Babson Capital Global Special Situation Credit Fund 2 .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership/Influence .....	.23.700 .....	MMLIC .....		
.0000 .....			98-1206017				Babson Capital Global Special Situation Credit Fund 2 .....	.DE..	.NIA..	C.M. Life Insurance Company .....	Ownership.....	.1.500 .....	MMLIC .....		
.0000 .....			98-1206017				Babson Capital Global Special Situation Credit Fund 2 .....	.DE..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			82-3867745				Barings Global Real Assets Fund LP .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership/Influence .....	.26.140 .....	MMLIC .....		
.0000 .....			82-3867745				Barings Global Real Assets Fund LP .....	.DE..	.NIA..	C.M. Life Insurance Company .....	Ownership.....	.5.100 .....	MMLIC .....		
.0000 .....			82-3867745				Barings Global Real Assets Fund LP .....	.DE..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....							Barings Global Special Situations Credit Fund 3 .....	.LUX..	.NIA..	MassMutual Holding LLC .....	Ownership/Influence .....	.19.680 .....	MMLIC .....		
.0000 .....							Barings Global Special Situations Credit Fund 3 .....	.LUX..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			06-1597528				MassMutual Assignment Company .....	.NC..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			04-1590850				MassMutual Capital Partners LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			46-4255307				Marco Hotel LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			45-3623262				HB Naples Golf Owner LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			82-4411267				RB Apartments LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Intermodal Holding II LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MassMutual Ventures Holding LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Crane Venture Partners LLP .....	.GBR..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.33.000 .....	MMLIC .....		
.0000 .....							MassMutual Ventures Management LLC .....	.DE..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MassMutual Ventures SEA Management Private Limited .....	.DE..	.NIA..	MassMutual Ventures Management LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MMV UK/SEA Limited .....	.GBR..	.NIA..	Limited .....	MassMutual Ventures SEA Management Private		Ownership.....	.100.000 .....	MMLIC .....
.0000 .....							MassMutual Ventures India Private Limited .....	.IND..	.NIA..	Limited .....	MassMutual Ventures SEA Management Private		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 UK LLC .....	.DE..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			47-1296410				MassMutual Ventures US I LLC .....	.DE..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MassMutual Ventures US II LLC .....	.DE..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MassMutual Ventures US III LLC .....	.DE..	.NIA..	MassMutual Ventures Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MM Catalyst Fund LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MM Catalyst Fund II LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....			04-1590850				MM Rothesay Holdco US LLC .....	.DE..	.NIA..	MassMutual Holding LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Limited .....	.GBR..	.NIA..	MM Rothesay Holdco US LLC .....	Ownership.....	.47.600 .....	MMLIC .....		
.0000 .....							Rothesay Mortgages Limited .....	.GBR..	.NIA..	Rothesay Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Life Plc .....	.GBR..	.NIA..	Rothesay Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay MA No.1 Limited .....	.GBR..	.NIA..	Rothesay Life PLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay MA No.3 Limited .....	.GBR..	.NIA..	Rothesay Life PLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay MA No.4 Limited .....	.GBR..	.NIA..	Rothesay Life PLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							LT Mortgage Financing Limited .....	.GBR..	.NIA..	Rothesay Life PLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Property Partnership 1 LLP .....	.GBR..	.NIA..	Rothesay Life PLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Foundation .....	.GBR..	.NIA..	Rothesay Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Pensions Management Limited .....	.GBR..	.NIA..	Rothesay Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Asset Management UK Limited .....	.GBR..	.NIA..	Rothesay Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Asset Management Australia Pty Ltd .....	.AUS..	.NIA..	Rothesay Asset Management UK Limited .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Rothesay Asset Management North America LLC .....	.DE..	.NIA..	Rothesay Asset Management UK Limited .....	Ownership.....	.100.000 .....	MMLIC .....		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000		04-1590850				MML Investors Services, LLC		.MA.	.NIA.	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
.0000		04-1590850				MML Insurance Agency, LLC		.MA.	.NIA.	MML Investors Services, LLC	Ownership.	100.000	MMLIC		
.0000		41-2011634				MMLISI Financial Alliances, LLC		.DE.	.NIA.	MML Investors Services, LLC	Ownership.	100.000	MMLIC		
.0000		47-1466022				LifeScore Labs, LLC		.MA.	.NIA.	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
.0000		45-4000072				MM Asset Management Holding LLC		.MA.	.NIA.	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
.0000		51-0504477				Barings LLC		.MA.	.NIA.	MassMutual Holding LLC	Ownership.	100.000	MMLIC		
.0000		98-0524271				Baring Asset Management (Asia) Holdings Limited		.HKG.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000		98-0457465				Baring International Fund Managers (Bermuda) Limited		.BMU.	.NIA.	Baring Asset Management (Asia) Holdings Limited	Ownership.	100.000	MMLIC		
.0000		98-0457463				Baring Asset Management (Asia) Limited		.HKG.	.NIA.	Baring Asset Management (Asia) Holdings Limited	Ownership.	100.000	MMLIC		
.0000						Baring Asset Management Korea Limited		.KOR.	.NIA.	Baring Asset Management (Asia) Limited	Ownership.	100.000	MMLIC		
.0000						Barings Investment Management (Shanghai) Limited		.HKG.	.NIA.	Baring Asset Management (Asia) Limited	Ownership.	100.000	MMLIC		
.0000						Barings Overseas Investment Fund Management (Shanghai) Limited		.HKG.	.NIA.	Baring Asset Management (Asia) Holdings Limited	Ownership.	100.000	MMLIC		
.0000		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.	Barings Australia Holding Company Pty Ltd	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				Barings Australia Property Partners Holdings Pty Ltd		.AUS.	.NIA.	Barings Australia Real Estate Pty Ltd	Ownership.	100.000	MMLIC		
.0000						Barings Australia Asset Management Pty Ltd		.AUS.	.NIA.	Barings Australia Property Partners Holdings Pty Ltd	Ownership.	100.000	MMLIC		
.0000						Barings Australia Property Partners Pty Ltd		.AUS.	.NIA.	Barings Australia Asset Management Pty Ltd	Ownership.	100.000	MMLIC		
.0000						Barings Australia Structured Finance Holdings Pty Ltd		.AUS.	.NIA.	Barings Australia Property Partners Holdings Pty Ltd	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						Gryphon Capital Partners Pty Ltd		.AUS.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Gryphon Capital Management Pty Ltd		.AUS.	.NIA.	Gryphon Capital Partners Pty Ltd	Ownership.	100.000	MMLIC		
.0000						Gryphon Capital Investments Pty Ltd		.AUS.	.NIA.	Gryphon Capital Partners Pty Ltd	Ownership.	100.000	MMLIC		
.0000						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						Barings Securities LLC		.DE.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		
.0000						Barings Guernsey Limited		.GGY.	.NIA.	Barings LLC	Ownership.	100.000	MMLIC		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						Barings Europe Limited		.GBR.	.NIA.	Barings Guernsey Limited	Ownership.....	100.000	MMLIC		
.0000						Barings Asset Management Spain SL		.ESP.	.NIA.	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000						Baring France SAS		.FRA.	.NIA.	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.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			98-0241935			Barings Switzerland Sàrl		.CHE.	.NIA.	Barings Europe Limited	Ownership.....	100.000	MMLIC		
.0000						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			98-0457586			Baring Fund Managers Limited		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000			98-0457578			BCSS 2 GP LLP		.GBR.	.NIA.	Baring Fund Managers Limited	Ownership.....	100.000	MMLIC		
.0000						Baring Investment Services Limited		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings Core Fund Feeder I GP S.à.r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings Investment Fund (LUX) GP S.à. r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings BME GP S.à.r.l.		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings GPC GP S.à. r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings European Core Property Fund GP Sàrl		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						Barings Umbrella Fund (LUX) GP S.à.r.l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						GPLF4(S) GP S.à r. l.		.LUX.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						PREIF Holdings Limited Partnership		.GBR.	.NIA.	Baring Asset Management Limited	Ownership.....	100.000	MMLIC		
.0000						BMC Holdings DE LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000			04-3238351	3456895		Barings Real Estate Advisers Inc.		.CA.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000			81-4065378			Remington L & W Holdings LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership/Influence .....	65.370	MMLIC		
.0000			81-4065378			Remington L & W Holdings LLC		.DE.	.NIA.	Barings LLC	Influence.....		MMLIC		
.0000						Aland Royalty GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Alaska Future Fund GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						BAI Funds SLP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						BAI GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Baring Asset-Based Income Fund (US) GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings CMS Fund GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings Infiniti Fund Management LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings New Jersey Emerging Manager Program GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings Hotel Opportunity Venture I GP, LLC		.DE.	.NIA.	Massachusetts Mutual Life Insurance Company	Ownership.....	100.000	MMLIC		
.0000						Baring Investment Series LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings Emerging Generation Fund GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings Emerging Generation Fund GP II, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings EPLF4 Rated Feeder, L.P.		.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						Barings FC III LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000						Barings Global Investment Funds (U.S.) Management LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		
.0000			04-1590850			Barings CLO Investment Partners GP, LLC		.DE.	.NIA.	Barings LLC	Ownership.....	100.000	MMLIC		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tion- ship to Report- ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000						Barings Core Property Fund GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings DAPPL1 Rated Feeder, G.P. .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings DAPPL1 Rated Feeder, L.P. .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Direct Lending GP Ltd. .....		.CYM.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Diversified Residential Fund GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Diversified Residential Fund LP .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Global Energy Infrastructure Advisors, LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Capital Solutions Perpetual Fund GP 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 Centre Street CLO Equity Partnership LP .....		.DE.	NIA.	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	27.890	MMLIC .....		
.0000		88-3792609				Barings Centre Street CLO Equity Partnership LP .....		.DE.	NIA.	Barings LLC .....	Management.....		MMLIC .....		
.0000		88-3792609				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						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						Barings Real Estate European Value Add Fund II Feeder LLC .....		.CYM.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings SEM 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 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 .....		
.0000		84-5063008				Barings TYIDF2 Rated Feeder GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings TYIDF2 Rated Feeder, L.P. .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BCLF GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000		98-0536233				Benton Street Advisors, Inc. .....		.CYM.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Barings Active Passive Equity Direct EAFFE LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BHOVI Incentive LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BIG Real Estate Fund GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BIG Real Estate Incentive I LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BIG Real Estate Incentive II LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BRECS VII GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						BREDIF GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						CPF Springing Member, LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						CREA-MA Reorganization Trust .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						CREF X GP LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
.0000						Great Lakes III GP, LLC .....		.DE.	NIA.	Barings LLC .....	Ownership.....	100.000	MMLIC .....		
						04-1590850									

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000						Lake Jackson LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Barings Emerging Markets Blended Fund I GP, LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Barings EPLF4 Rated Feeder GP LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Mezzco III LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	.99.300 ...	MMLIC .....			
.0000						Mezzco IV LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	.99.300 ...	MMLIC .....			
.0000						Mezzco Australia II LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						RECSA-NY GP LLC .....	..DE.....	NIA.....	Barings LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Barings CLO 2022-I .....	.CYM.....	NIA.....	Barings LLC .....	Influence.....		MMLIC .....			
.0000						Barings CLO 2022-II .....	.CYM.....	NIA.....	Barings LLC .....	Influence.....		MMLIC .....			
.0000						Amherst Long Term Holdings, LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.24.500 ...	MMLIC .....			
.0000						Enroll Confidently, Inc. .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.25.000 ...	MMLIC .....			
.0000						MassMutual International LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		YES	
.0000						MassMutual Solutions LLC .....	..DE.....	NIA.....	MassMutual International LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Haven Technologies Asia Limited .....	.HKG.....	NIA.....	MassMutual Solutions LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Yunfeng Financial Group Limited .....	.HKG.....	NIA.....	MassMutual International LLC .....	Ownership.....	.24.900 ...	MMLIC .....			
.0000						MassMutual External Benefits Group LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						MM Vine Street LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Stillings Street LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						5301 Wisconsin Avenue Associates, LLC .....	.DC.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.99.000 ...	MMLIC .....			
.0000						5301 Wisconsin Avenue GP, LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....			
.0000						100 w. 3rd Street LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						300 South Tryon Hotel LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						300 South Tryon LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Almack Mezzanine Fund II Unleveraged LP .....	.GBR.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.72.900 ...	MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund I LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund I LLC .....	..DE.....	NIA.....	Barings LLC .....	Management.....		MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund II LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund II LLC .....	..DE.....	NIA.....	Barings LLC .....	Management.....		MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund III LLC .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....			
.0000						Barings Affordable Housing Mortgage Fund III LLC .....	..DE.....	NIA.....	Barings LLC .....	Management.....		MMLIC .....			
.0000						Barings Construction Lending Fund LP .....	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.85.710 ...	MMLIC .....			

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 .....						Barings Emerging Generation Fund II LP .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.39.700 .....	MMLIC .....		
.0000 .....		84-3784245				Barings Emerging Generation Fund, LP .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.67.740 .....	MMLIC .....		
.0000 .....		84-3784245				Barings Emerging Generation Fund, LP .....		.DE..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....						Barings Emerging Markets Corporate Bond Fund .....		.IRL..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....		MMLIC .....		
.0000 .....						Barings Emerging Markets Corporate Bond Fund .....		.IRL..	.NIA..	Barings LLC .....	Ownership.....	.57.600 .....	MMLIC .....		
.0000 .....						Barings Hotel Opportunity Venture I LP .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.65.000 .....	MMLIC .....		
.0000 .....						Barings Hotel Opportunity Venture I LP .....		.DE..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....						Barings Miller Investment Trust .....		.AUS..	.NIA..	MassMutual Ascend Life Insurance Company .....	Ownership/Influence .....	.57.330 .....	MMLIC .....		
.0000 .....						Barings Miller Investment Trust .....		.AUS..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Influence.....	.9.330 .....	MMLIC .....		
.0000 .....		85-3449260				Barings Real Estate Debt Income Fund LP .....		.DE..	.NIA..	C.M. Life Insurance Company .....	Ownership/Influence .....	100.000 .....	MMLIC .....		
.0000 .....		85-3449260				Barings Real Estate Debt Income Fund LP .....		.DE..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....		85-3449260				Barings Real Estate Debt Income Fund LP .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Management.....		MMLIC .....		
.0000 .....						Barings Real Estate European Value Add I SCSp .....		.GBR..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.49.990 .....	MMLIC .....		
.0000 .....						Barings Real Estate European Value Add I SCSp .....		.GBR..	.NIA..	C.M. Life Insurance Company .....	Ownership.....	.4.900 .....	MMLIC .....		
.0000 .....						Barings Real Estate European Value Add I SCSp .....		.GBR..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....						Barings Small Business Fund, L.P. .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.33.600 .....	MMLIC .....		
.0000 .....						Barings U.S. High Yield Fund .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.30.090 .....	MMLIC .....		
.0000 .....						Barings-MM Revolver Fund LP .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.86.000 .....	MMLIC .....		
.0000 .....						Barings-MM Revolver Fund LP .....		.DE..	.NIA..	MM Ascend .....	Ownership/Influence .....	.14.000 .....	MMLIC .....		
.0000 .....						Beauty Brands Acquisition LLC .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.32.630 .....	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 .....		45-2632610				Cornerstone Permanent Mortgage Fund LLC .....		.MA..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....		45-2632610				Cornerstone Permanent Mortgage Fund LLC .....		.MA..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....						CREA Ridge Apartments, LLC .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....						Euro Real Estate Holdings Herleshausen LLC .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.47.500 .....	MMLIC .....		
.0000 .....						London Office JV Holdings LLC .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....						Riverwalk MM Member, LLC .....		.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....		83-0560183				Aland Royalty Holdings LP .....		.DE..	.NIA..	MassMutual Holding LLC .....	Ownership/Influence .....	.26.690 .....	MMLIC .....		
.0000 .....		83-0560183				Aland Royalty Holdings LP .....		.DE..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 .....			81-2244465				Chassis Acquisition Holding LLC .....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.30.000 .....	MMLIC .....		
.0000 .....			81-4258759				CRA Aircraft Holding LLC .....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.40.000 .....	MMLIC .....		
.0000 .....			81-4258759				CRA Aircraft Holding LLC .....	.DE..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							EIP Holdings I, LLC .....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.29.000 .....	MMLIC .....		
.0000 .....			46-5460309				Red Lake Ventures, LLC .....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.31.520 .....	MMLIC .....		
.0000 .....			46-5460309				Red Lake Ventures, LLC .....	.DE..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....			46-0687392				Validus Holding Company LLC .....	.DE..	.NIA..	Barings LLC .....	Ownership.....	.40.440 .....	MMLIC .....		
.0000 .....			04-1590850				SBNP SIA II LLC .....	.DE..	.NIA..	Barings LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							SBNP SIA III LLC .....	.DE..	.NIA..	Barings LLC .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							MM Speedway El Paso Member LLC .....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....		
.0000 .....							Barings European Real Estate Debt Income Fund .....	.LUX..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.54.720 .....	MMLIC .....		
.0000 .....							Barings European Real Estate Debt Income Fund .....	.LUX..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....			37-1506417				Babson Capital Loan Strategies Fund, L.P. ....	.DE..	.NIA..	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.76.630 .....	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 .....		MMLIC .....		
.0000 .....							Barings US High Yield Bond Fund .....	.IRL..	.NIA..	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....							Babson CLO Ltd. 2015-I .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		2 .....
.0000 .....							Babson CLO Ltd. 2015-II .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		3 .....
.0000 .....							Babson CLO Ltd. 2016-II .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings CLO 2018-III .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings CLO 2018-IV .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....			98-1473665				Barings CLO 2019-II .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings CLO 2019-III .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings CLO 2019-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-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 .....							Barings CLO 2024-II .....	.CYM..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Babson Euro CLO 2014-I BV .....	.NLD..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Babson Euro CLO 2015-I BV .....	.NLD..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2019-I BV .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2020-I DAC .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2021-I DAC .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2021-II DAC .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2021-III DAC .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....							Barings Euro CLO 2021-IV DAC .....	.IRL..	.NIA..	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....															

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Relation- ship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percent- age	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000						Barings Euro CLO 2023-II DAC		.IRL	.NIA	Barings LLC	Influence		MMLIC		
.0000		98-1332384				Barings Global Energy Infrastructure Fund I LP		.CYM	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	99.230	MMLIC		
.0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	67.000	MMLIC		
.0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	C.M. Life Insurance Company	Ownership	3.500	MMLIC		
.0000						Barings Global Special Situations Credit 4 Delaware		.DE	.NIA	Barings LLC	Management		MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	12.600	MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	C.M. Life Insurance Company	Ownership	0.700	MMLIC		
.0000						Barings Global Special Situations Credit 4 LUX		.LUX	.NIA	Barings LLC	Management		MMLIC		
.0000						Barings Europe Select Fund		.IRL	.NIA	Barings LLC	Management		MMLIC		
.0000		87-0977058				Barings Hotel Opportunity Venture		.CT	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	50.000	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	29.700	MMLIC		
.0000		86-3661023				Barings Innovations & Growth Real Estate Fund		.DE	.NIA	C.M. Life Insurance Company	Ownership	0.400	MMLIC		
.0000						Barings Middle Market CLO 2017-I Ltd & LLC		.CYM	.NIA	Barings LLC	Influence		MMLIC		
.0000						Barings Middle Market CLO 2018-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
.0000						Barings Middle Market CLO 2019-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
.0000		98-1612604				Barings Middle Market CLO Ltd 2021-I		.CYM	.NIA	Barings LLC	Influence		MMLIC		
.0000						Barings Middle Market CLO Ltd 2023-I		.BMU	.NIA	Barings LLC	Influence		MMLIC		
.0000						Barings Middle Market CLO Ltd 2023-II		.BMU	.NIA	Barings LLC	Influence		MMLIC		
.0000		98-1332384				Barings RE Credit Strategies VII LP		.DE	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	34.690	MMLIC		
.0000		98-1332384				Barings RE Credit Strategies VII LP		.DE	.NIA	Baring Asset Management Limited	Management		MMLIC		
.0000						Barings Target Yield Infrastructure Debt Fund		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership	18.870	MMLIC		
.0000		98-1567942				Barings Target Yield Infrastructure Debt Fund		.LUX	.NIA	Baring Asset Management Limited	Management		MMLIC		
.0000		98-1567942						.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Management		MMLIC		
.0000		81-0841854				Barings CLO Investment Partners LP		.DE	.NIA	C.M. Life Insurance Company	Ownership/Influence	100.000	MMLIC		
.0000		81-0841854				Barings CLO Investment Partners LP		.DE	.NIA	Barings LLC	Management		MMLIC		
.0000						Barings Euro Value Add II (BREEVA II)		.LUX	.NIA	Massachusetts Mutual Life Insurance Company	Ownership/Influence	27.500	MMLIC		
.0000						Barings Euro Value Add II (BREEVA II)		.LUX	.NIA	C.M. Life Insurance Company	Ownership	2.400	MMLIC		
.0000						Barings Euro Value Add II (BREEVA II)		.LUX	.NIA	Barings LLC	Management		MMLIC		
.0000		87-1262754				Barings Transportation Fund LP		.DE	.NIA	MassMutual Holding LLC	Ownership/Influence	13.310	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	98.500	MMLIC		
.0000						Braemar Energy Ventures I, L.P.		.DE	.NIA	C.M. Life Insurance Company	Ownership	1.500	MMLIC		
.0000						Braemar Energy Ventures I, L.P.		.DE	.NIA	Barings LLC	Management		MMLIC		
.0000						Barings European Core Property Fund SCSp		.LUX	.NIA	MassMutual Holding LLC	Ownership/Influence	12.860	MMLIC		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 ...						Barings European Core Property Fund SCSp ...	.LUX...	.NIA...	C.M. Life Insurance Company .....	Ownership.....	0.800 ...	MMLIC .....			
.0000 ...						Barings European Core Property Fund SCSp ...	.LUX...	.NIA...	Barings Real Estate Advisers LLC .....	Management.....		MMLIC .....			
.0000 ...		46-5001122				Barings European Private Loan Fund III A ...	.LUX...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	44.980 ...	MMLIC .....			
.0000 ...		38-4059932				Benchmark 2018-B2 Mortgage Trust .....	.NY...	.NIA...	Barings LLC .....	Influence.....		MMLIC .....			
.0000 ...		38-4096530				Benchmark 2018-B4 .....	.NY...	.NIA...	Barings LLC .....	Influence.....		MMLIC .....			
.0000 ...		20-5578089				Benchmark 2018-B8 .....	.NY...	.NIA...	Barings LLC .....	Influence.....		MMLIC .....			
.0000 ...		20-5578089				Barings Core Property Fund LP .....	.DE...	.NIA...	MassMutual Holding LLC .....	Ownership/Influence .....	25.900 ...	MMLIC .....			
.0000 ...		04-1590850				Barings Core Property Fund LP .....	.DE...	.NIA...	Barings Real Estate Advisers LLC .....	Management.....		MMLIC .....			
.0000 ...		04-1590850				DPI Acres Capital SPV LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...		04-1590850				DPI-ARES Mortgage Lending SPV, LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						E2E Affordable Housing Debt Fund LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	100.000 ...	MMLIC .....			
.0000 ...		37-1708623				Great Lakes III, L.P. .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	40.450 ...	MMLIC .....			
.0000 ...		37-1708623				Great Lakes III, L.P. .....	.DE...	.NIA...	Barings LLC .....	Management.....		MMLIC .....			
.0000 ...		98-1607033				GIA EU Holdings - Emerson JV Sarl .....	.LUX...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	100.000 ...	MMLIC .....			
.0000 ...		98-1607033				GIA EU Holdings - Emerson JV Sarl .....	.LUX...	.NIA...	Barings LLC .....	Management.....		MMLIC .....			
.0000 ...		JPMCC Commercial Mortgage Securities Trust 2017-JP7				JPMCC Commercial Mortgage Securities Trust 2017-JP7 .....	.NY...	.NIA...	Barings LLC .....	Influence.....		MMLIC .....			
.0000 ...		38-4041011				JPMDB Commercial Mortgage Securities Trust 2017-CS .....	.NY...	.NIA...	Barings LLC .....	Influence.....		MMLIC .....			
.0000 ...		38-4032059				Martello Re Feeder LP .....	.DE...	.NIA...	MassMutual Holding LLC .....	Ownership.....	44.000 ...	MMLIC .....			
.0000 ...						Martello Re LP .....	.DE...	.NIA...	Martello Re Feeder LP .....	Ownership.....	.54.000 ...	MMLIC .....			
.0000 ...						Martello Re Holding Limited LLC .....	.DE...	.NIA...	Martello Re LP .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Martello Re Limited .....	.BMU...	.NIA...	Martello Re Holding Limited LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						Martello Re Services Company .....	.DE...	.NIA...	Martello Re Holding Limited LLC .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...		04-1590850				Miami Douglas Three MM, LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...		87-4021641				MM BIG Peninsula Co-Invest Member LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.27.000 ...	MMLIC .....			
.0000 ...		87-4021641				MM BIG Peninsula Co-Invest Member LLC .....	.DE...	.NIA...	C.M. Life Insurance Company .....	Ownership.....	.800 ...	MMLIC .....			
.0000 ...		04-1590850				MM Direct Private Invetment Holding .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...						MM CM Holding LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....			
.0000 ...		81-3000420				MM Debt Participations LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	100.000 ...	MMLIC .....			
.0000 ...		81-3000420				MM Debt Participations LLC .....	.DE...	.NIA...	Barings LLC .....	Management.....		MMLIC .....			
.0000 ...		04-1590850				MM MD1 Station Member LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.47.000 ...	MMLIC .....			
.0000 ...		04-1590850				MM MD1 Station Member LLC .....	.DE...	.NIA...	C.M. Life Insurance Company .....	Ownership.....	.3.100 ...	MMLIC .....			
.0000 ...		04-1590850				MM MD2 Station Member LLC .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.47.000 ...	MMLIC .....			
.0000 ...		04-1590850				MM MD2 Station Member LLC .....	.DE...	.NIA...	C.M. Life Insurance Company .....	Ownership.....	.3.100 ...	MMLIC .....			
.0000 ...		04-1590850				MMV Climate Technology Fund GP .....	.DE...	.NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.99.000 ...	MMLIC .....			
.0000 ...		04-1590850				MMV Climate Technology Fund GP .....	.DE...	.NIA...	Massachusetts Mutual Ascend .....	Ownership.....	1.000 ...	MMLIC .....			

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 .....						MM REED District Landco Member LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		
.0000 .....		04-1590850				MM Subline Borrower LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		
.0000 .....						SBNP SIA IV LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.99.000 ...	MMLIC .....		
.0000 .....		04-1590850				Washington Pine LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		
.0000 .....			35-2553915			Ten Fan Pier Boulevard LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		
.0000 .....			41-2280127			Tower Square Capital Partners III, L.P. ....		DE...	NIA...	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			41-2280127			Tower Square Capital Partners III, L.P. ....		DE...	NIA...	MassMutual Holding LLC .....	Ownership/Influence .....	.17.290 ...	MMLIC .....		
.0000 .....			41-2280129			Tower Square Capital Partners IIIA, L.P. ....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	.97.170 ...	MMLIC .....		
.0000 .....			41-2280129			Tower Square Capital Partners IIIA, L.P. ....		DE...	NIA...	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			04-1590850			Trailside MM Member LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.66.970 ...	MMLIC .....		
.0000 .....			04-1590850			Trailside MM Member LLC .....		DE...	NIA...	C.M. Life Insurance Company .....	Ownership.....	.7.380 ...	MMLIC .....		
.0000 .....			83-1325764			Washington Gateway Two LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.95.800 ...	MMLIC .....		
.0000 .....			83-1325764			Washington Gateway Two LLC .....		DE...	NIA...	C.M. Life Insurance Company .....	Ownership.....	.6.720 ...	MMLIC .....		
.0000 .....			32-0574045			Washington Gateway Three LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.95.230 ...	MMLIC .....		
.0000 .....						MALIC Debt Participations LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 ...	MMLIC .....		
.0000 .....						Babson Capital Loan Strategies Master Fund LP .....		CY.M...	NIA...	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....						Barings China Aggregate Bond Private Securities Investment Fund .....		CHN...	NIA...	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			47-3790192			Barings Global High Yield Fund .....		MA...	NIA...	Barings LLC .....	Management.....		MMLIC .....		
.0000 .....			71-1018134			Great Lakes II LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.0.750 ...	MMLIC .....		
.0000 .....			71-1018134			Great Lakes II LLC .....		DE...	NIA...	C.M. Life Insurance Company .....	Ownership.....	.0.320 ...	MMLIC .....		
.0000 .....			04-1590850			Wood Creek Venture Fund LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.40.000 ...	MMLIC .....		
.0000 .....						Barings California Mortgage Fund IV .....		CA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership/Influence .....	100.000 ...	MMLIC .....		
.0000 .....						Barings California Mortgage Fund IV .....		CA...	NIA...	Barings LLC .....	Influence.....		MMLIC .....		
.0000 .....						Barings Umbrella Fund LUX SICAV RAIF .....		LUX...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.24.960 ...	MMLIC .....		
.0000 .....						Barings Umbrella Fund LUX SICAV RAIF .....		LUX...	NIA...	C.M. Life Insurance Company .....	Ownership.....	.2.300 ...	MMLIC .....		
.0000 .....			82-2285211			Calgary Railway Holding LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.90.000 ...	MMLIC .....		
.0000 .....			82-3307907			Cornbrook PRS Holdings LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....		
.0000 .....			95-4207717			Cornerstone California Mortgage Fund I LLC .....		CA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....		
.0000 .....			95-4207717			Cornerstone California Mortgage Fund II LLC .....		CA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....		
.0000 .....			95-4207717			Cornerstone California Mortgage Fund III LLC .....		CA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 ...	MMLIC .....		
.0000 .....			56-2630592			Cornerstone Fort Pierce Development LLC .....		DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.90.000 ...	MMLIC .....		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- iliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000		56-2630592				Cornerstone Fort Pierce Development LLC	..DE.....	NIA.....	C.M. Life Insurance Company	.....	Ownership.....	5.900	MMLIC		
.0000		61-1750537				Cornerstone Permanent Mortgage Fund II	..MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	100.000	MMLIC		
.0000		61-1750537				Cornerstone Permanent Mortgage Fund II	..MA.....	NIA.....	Barings LLC	.....	Management.....		MMLIC		
.0000						Cornerstone Permanent Mortgage Fund III LLC	..MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	100.000	MMLIC		
.0000			61-1793735			Cornerstone Permanent Mortgage Fund IV	..MA.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	100.000	MMLIC		
.0000			20-0348173			CREA/PPC Venture LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	28.520	MMLIC		
.0000			82-2783393			Danville Riverwalk Venture, LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.94.400	MMLIC		
.0000			04-1590850			Euro Real Estate Holdings LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.50.000	MMLIC		
.0000			20-3347091			Fan Pier Development LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.65.000	MMLIC		
.0000			20-3347091			Fan Pier Development LLC	..DE.....	NIA.....	C.M. Life Insurance Company	.....	Ownership.....	.5.850	MMLIC		
.0000			04-1590850			GIA EU Holdings LLC - Avalon Spain	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	100.000	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			13-1935920			MMLIC Debt Participations LLC	..DE.....	NIA.....	Massachusetts Mutual Ascend	.....	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 Ascend Mtg. Lending LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	100.000	MMLIC		
.0000			04-1590850			MM Indianapolis Industrial Member LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.82.720	MMLIC		
.0000			04-1590850			MM Indianapolis Industrial Member LLC	..DE.....	NIA.....	Massachusetts Mutual Ascend	.....	Ownership.....	.12.280	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 Horizon Savannah Member II LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.4.430	MMLIC		
.0000			04-1590850			MM Horizon Savannah Member II LLC	..DE.....	NIA.....	C.M. Life Insurance Company	.....	Ownership.....	.0.180	MMLIC		
.0000			04-1590850			MM Horizon Savannah Member II LLC	..DE.....	NIA.....	Massachusetts Mutual Ascend	.....	Ownership.....	.0.380	MMLIC		
.0000			04-1590850			MM Ironhead Commerce Center	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.75.250	MMLIC		
.0000			04-1590850			MM Ironhead Commerce Center	..DE.....	NIA.....	Massachusetts Mutual Ascend	.....	Ownership.....	.19.800	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 1370 AVE OF AM LLC	..DE.....	NIA.....	Massachusetts Mutual Life Insurance Company	.....	Ownership.....	.90.000	MMLIC		
.0000			04-1590850			MM 1370 AVE OF AM LLC	..DE.....	NIA.....	C.M. Life Insurance Company	.....	Ownership.....	.3.330	MMLIC		
.0000			04-1590850			MM 1400 E 4th Street Member LLC	..DE.....	NIA.....	Massachusetts Mutual 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.....	.6.030	MMLIC		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela- tionship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- centage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.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 .....		04-1590850					Trailsidem MM Member II LLC .....	DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	47.100	MMLIC .....		
.0000 .....		82-3250684					Uhna, 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.....	4.770	MMLIC .....		
.0000 .....		88-3861481					West 37th Street Hotel LLC .....	DE...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	93.800	MMLIC .....		
.0000 .....		88-3861481					West 37th Street Hotel LLC .....	DE...	NIA...	C.M. Life Insurance Company .....	Ownership.....	6.200	MMLIC .....		
.0000 .....		26-3229251			0000927972 .. 0Q		MassMutual Premier Strategic Emerging Markets Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	57.940	MMLIC .....		
.0000 .....		42-1710935			0000916053 .. 0Q		MassMutual Select Mid-Cap Value Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	38.710	MMLIC .....		
.0000 .....		02-0769954			0000916053 .. 0Q		MassMutual Select Small Capital Value Equity Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		04-3584140			0000916053 .. 0Q		MassMutual Select Small Company Value Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	43.500	MMLIC .....		
.0000 .....		82-3347422			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2005 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Ownership.....	24.510	MMLIC .....		
.0000 .....		82-3355639			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2010 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3382389			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2015 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3396442			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2020 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3417420			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2025 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3430358			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2030 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3439837			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2035 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3451779			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2040 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3472295			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2045 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3481715			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2050 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3502011			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2055 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3525148			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement 2060 Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		82-3533944			0000916053 .. 0Q		MassMutual Select T. Rowe Price Retirement Balanced Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....		MMLIC .....		
.0000 .....		46-4257056					MML Series International Equity Fund .....	MA...	NIA...	Massachusetts Mutual Life Insurance Company .....	Influence.....	100.000	MMLIC .....		

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domestic- ciliary Loca- tion	10 Rela-tion- ship to Report-ing Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Per- cen-tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
.0000 .....		47-3529636 .....				MML Series II Dynamic Bond Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Influence .....	MMLIC .....					
.0000 .....		47-3544629 .....				MML Series II Equity Rotation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	97.230 .. MMLIC .....					
.0000 .....		27-1933389 .....		0000916053 ..	00 ..	MassMutual RetireSMART 2035 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	3.220 .. MMLIC .....					
.0000 .....		27-1932769 .....		0000916053 ..	00 ..	MassMutual RetireSMART 2045 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	6.440 .. MMLIC .....					
.0000 .....		46-3289207 .....		0000916053 ..	00 ..	MassMutual RetireSMART 2055 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	20.410 .. MMLIC .....					
.0000 .....		47-5326235 .....		0000916053 ..	00 ..	MassMutual RetireSMART 2060 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	38.170 .. MMLIC .....					
.0000 .....		45-1618155 .....		0000916053 ..	00 ..	MassMutual 20/80 Allocation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Influence .....	100.000 .. MMLIC .....					
.0000 .....		45-1618222 .....		0000916053 ..	00 ..	MML SER INV T FD II ISHARES 80/20 ALLOCATION FD .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	34.200 .. MMLIC .....					
.0000 .....		03-0532464 .....		0000916053 ..	00 ..	MassMutual RetireSMART In Retirement Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	7.180 .. MMLIC .....					
.0000 .....		45-1618262 .....		0000916053 ..	00 ..	MassMutual 40/60 Allocation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Influence .....	100.000 .. MMLIC .....					
.0000 .....		45-1618046 .....		0000916053 ..	00 ..	MassMutual 60/40 Allocation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		45-1618046 .....		0000916053 ..	00 ..	MassMutual iShares 60/40 Allocation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	58.190 .. MMLIC .....					
.0000 .....		04-3212054 .....		0000916053 ..	00 ..	MassMutual Balanced Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3556992 .....		0000916053 ..	00 ..	MassMutual Blue Chip Growth Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3277549 .....		0000916053 ..	00 ..	MassMutual Core Bond Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	4.800 .. MMLIC .....					
.0000 .....		04-3539084 .....		0000916053 ..	00 ..	MassMutual Disciplined Growth Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3539083 .....		0000916053 ..	00 ..	MassMutual Disciplined Value Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		01-0821120 .....		0000916053 ..	00 ..	MassMutual Diversified Value Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3512590 .....		0000916053 ..	00 ..	MassMutual Equity Opportunities Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		03-0532475 .....		0000916053 ..	00 ..	MassMutual Inflation-Protected and Income Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	99.790 .. MMLIC .....					
.0000 .....		04-3512596 .....		0000916053 ..	00 ..	MassMutual Mid Cap Growth Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3464165 .....		0000916053 ..	00 ..	MassMutual Premier Diversified Bond Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		92-1441036 .....		0000916053 ..	00 ..	MassMutual RetireSMART by JPMorgan 2065 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	90.930 .. MMLIC .....					
.0000 .....		45-1618222 .....		0000916053 ..	00 ..	MassMutual Select 80/20 Allocation Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		04-3557000 .....		0000916053 ..	00 ..	MassMutual Select Overseas Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	100.000 .. MMLIC .....					
.0000 .....		92-1427882 .....		0000916053 ..	00 ..	MassMutual Select T Rowe Price Retirement 2065 Fund .....	.. MA .. NIA ..	Massachusetts Mutual Life Insurance Company .....	Ownership .....	30.050 .. MMLIC .....					

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

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

1 Group Code	2 Group Name	3 NAIC Company Code	4 ID Number	5 Federal RSSD	6 CIK	7 Name of Securities Exchange if Publicly Traded (U.S. or International)	8 Names of Parent, Subsidiaries Or Affiliates	9 Domesticiliary Location	10 Relationship to Reporting Entity	11 Directly Controlled by (Name of Entity/Person)	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Ownership Provide Percentage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Required? (Yes/No)	16 *
.0000 .....		04-3464205 .....		0000916053 ..	00 .....	MassMutual Small Cap Growth Equity Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.61.390 .....	MMLIC .....			
.0000 .....		04-3424705 .....		0000916053 ..	00 .....	MassMutual Small Cap Opportunities Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.9.920 .....	MMLIC .....			
.0000 .....		02-0769954 .....		0000916053 ..	00 .....	MassMutual Small Cap Value Equity Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	100.000 .....	MMLIC .....			
.0000 .....		93-4168848 .....		0000916053 ..	00 .....	MassMutual Clinton Municipal Credit Opportunities Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.99.600 .....	MMLIC .....			
.0000 .....		93-4190918 .....		0000916053 ..	00 .....	MassMutual Clinton Municipal Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.98.860 .....	MMLIC .....			
.0000 .....		93-4193313 .....		0000916053 ..	00 .....	MassMutual Clinton Short-Term Municipal Fund .....	.. MA.....	NIA.....	Massachusetts Mutual Life Insurance Company .....	Ownership.....	.100.000 .....	MMLIC .....			

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

STATEMENT AS OF SEPTEMBER 30, 2024 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.

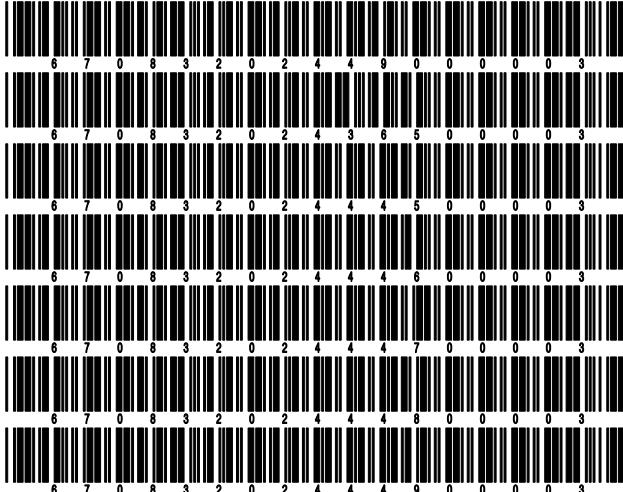
	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement? .....	NO
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement? .....	NO
3. Will the Reasonableness of Assumptions Certification 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
<b>AUGUST FILING</b>	
9. Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter. .....	N/A

Explanation:

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

Bar Code:

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



STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY  
**OVERFLOW PAGE FOR WRITE-INS**

**NONE**

**SCHEDULE A - VERIFICATION**

Real Estate

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

**NONE****SCHEDULE B - VERIFICATION**

Mortgage Loans

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

**NONE****SCHEDULE BA - VERIFICATION**

Other Long-Term Invested Assets

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

**NONE****SCHEDULE D - VERIFICATION**

Bonds and Stocks

	1 Year to Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value of bonds and stocks, December 31 of prior year .....	111,926,521	111,899,875
2. Cost of bonds and stocks acquired .....	3,035,743	17,809,776
3. Accrual of discount .....	330,984	445,982
4. Unrealized valuation increase/(decrease) .....	173,403	(725,488)
5. Total gain (loss) on disposals .....	4,775,061	17,351,705
6. Deduct consideration for bonds and stocks disposed of .....	113,510	151,920
7. Deduct amortization of premium .....	0	0
8. Total foreign exchange change in book/adjusted carrying value .....	25,256	0
9. Deduct current year's other than temporary impairment recognized .....	110,603,336	111,926,521
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) .....	110,603,336	111,926,521
12. Deduct total nonadmitted amounts .....	0	0
13. Statement value at end of current period (Line 11 minus Line 12) .....	110,603,336	111,926,521

## STATEMENT AS OF SEPTEMBER 30, 2024 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
<b>BONDS</b>								
1. NAIC 1 (a) .....	56,226,937	48,189,701	51,486,369	218,147	59,456,173	56,226,937	53,148,416	56,984,661
2. NAIC 2 (a) .....	58,879,464	111,880,054	116,994,024	2,123,452	57,838,501	58,879,464	55,888,946	57,844,195
3. NAIC 3 (a) .....	0		0		0	0	0	0
4. NAIC 4 (a) .....	1,620,548		0	(139,874)	1,624,071	1,620,548	1,480,674	1,626,687
5. NAIC 5 (a) .....	87,028		106	(1,622)	476,737	87,028	85,300	468,747
6. NAIC 6 (a) .....	0		0	0	0	0	0	
7. Total Bonds .....	116,813,977	160,069,755	168,480,499	2,200,103	119,395,482	116,813,977	110,603,336	116,924,290
<b>PREFERRED STOCK</b>								
8. NAIC 1 .....	0	0	0	0	0	0	0	0
9. NAIC 2 .....	0	0	0	0	0	0	0	0
10. NAIC 3 .....	0	0	0	0	0	0	0	0
11. NAIC 4 .....	0	0	0	0	0	0	0	0
12. NAIC 5 .....	0	0	0	0	0	0	0	0
13. NAIC 6 .....	0	0	0	0	0	0	0	0
14. Total Preferred Stock .....	0	0	0	0	0	0	0	0
15. Total Bonds and Preferred Stock .....	116,813,977	160,069,755	168,480,499	2,200,103	119,395,482	116,813,977	110,603,336	116,924,290

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

NAIC 1 \$ .....0 ; NAIC 2 \$ .....0 ; NAIC 3 \$ .....0 NAIC 4 \$ .....0 ; NAIC 5 \$ .....0 ; NAIC 6 \$ .....0

Schedule DA - Part 1 - Short-Term Investments

**N O N E**

Schedule DA - Verification - Short-Term Investments

**N O N E**

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

**N O N E**

Schedule DB - Part B - Verification - Futures Contracts

**N O N E**

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

**N O N E**

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

**N O N E**

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

**N O N E**

**SCHEDULE E - PART 2 - VERIFICATION**

(Cash Equivalents)

	1 Year To Date	2 Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year .....	8,267,946	12,521,902
2. Cost of cash equivalents acquired .....	165,912,412	167,757,153
3. Accrual of discount .....	126,488	76,629
4. Unrealized valuation increase/(decrease) .....	0	0
5. Total gain (loss) on disposals .....	9	450
6. Deduct consideration received on disposals .....	168,229,451	172,088,188
7. Deduct amortization of premium .....	0	0
8. Total foreign exchange change in book/adjusted carrying value .....	0	0
9. Deduct current year's other than temporary impairment recognized .....	0	0
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9) .....	6,077,404	8,267,946
11. Deduct total nonadmitted amounts .....	0	0
<b>12. Statement value at end of current period (Line 10 minus Line 11)</b>	<b>6,077,404</b>	<b>8,267,946</b>

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**

Schedule D - Part 3 - Long-Term Bonds and Stocks Acquired  
**N O N E**

## STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

## SCHEDULE D - PART 4

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

1 CUSIP Ident- ification	2 Description	For- eign	Disposal Date	5 Name of Purchaser	6 Number of Shares of Stock	7 Consid- eration	8 Par Value	9 Actual Cost	10 Prior Year Book/ Adjusted Carrying Value	Change In Book/Adjusted Carrying Value					16 Book/ Adjusted Carrying Value at Disposal Date	17 Foreign Exchange Gain (Loss) on Disposal	18 Realized Gain (Loss) on Disposal	19 Total Gain (Loss) on Disposal	20 Bond Interest/ Stock Dividends Received During Year	21 Stated Con- tractual Maturity Date	22 NAIC Design- ation, NAIC Design- ation Modifier and SVO Adminis- trative Symbol			
										11 Unrealized Valuation Increase/ (Decrease)	12 Current Year's (Amor- tization)/ Accretion	13 Other Than Temporary Impairment Recogn- ized	14 Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	15 Total Foreign Exchange Change in Book/ Adjusted Carrying Value										
..36207H-WH-7	Ginnie Mae I Pool-POOL #432716	.....	09/01/2024	PAYOUT	.....	109	.....	109	.....	0	0	0	0	0	.....	109	.....	0	0	0	5	06/01/2026	1.A .....	
..36208C-Y9-2	Ginnie Mae I Pool-POOL #447236	.....	09/01/2024	PAYOUT	.....	37	.....	37	.....	0	0	0	0	0	.....	37	.....	0	0	0	2	06/01/2027	1.A .....	
<b>0109999999. Subtotal - Bonds - U.S. Governments</b>					146	146	147	146	0	0	0	0	0	146	0	0	0	0	0	0	7	XXX	XXX	
..31287P-08-3	Freddie Mac Gold Pool-FG C63727	.....	09/01/2024	PAYOUT	.....	93	.....	93	.....	92	.....	88	0	5	.....	5	.....	0	0	0	4	02/01/2032	1.A .....	
..31287S-6R-3	Freddie Mac Gold Pool-FG C67180	.....	09/01/2024	PAYOUT	.....	98	.....	98	.....	99	.....	96	0	2	.....	2	.....	0	0	0	4	05/01/2032	1.A .....	
..31287S-FS-1	Freddie Mac Gold Pool-FG C66477	.....	09/01/2024	PAYOUT	.....	132	.....	132	.....	134	.....	127	0	5	.....	5	.....	0	0	0	5	04/01/2032	1.A .....	
..31287T-0K-5	Freddie Mac Gold Pool-FG C67402	.....	09/01/2024	PAYOUT	.....	38	.....	38	.....	38	.....	36	0	2	.....	0	.....	0	0	0	2	05/01/2032	1.A .....	
..31287U-EQ-1	Freddie Mac Gold Pool-FG C68243	.....	09/01/2024	PAYOUT	.....	52	.....	52	.....	52	.....	28	0	24	.....	0	.....	0	0	0	2	06/01/2032	1.A .....	
..31288H-7A-2	Freddie Mac Gold Pool-FG C78999	.....	09/01/2024	PAYOUT	.....	430	.....	430	.....	441	.....	359	0	71	.....	0	.....	0	0	0	16	05/01/2033	1.A .....	
..31292G-5V-4	Freddie Mac Gold Pool-FG C00860	.....	09/01/2024	PAYOUT	.....	168	.....	168	.....	169	.....	150	0	19	.....	0	.....	0	0	0	8	09/01/2029	1.A .....	
..31292H-NH-3	Freddie Mac Gold Pool-FG C01292	.....	09/01/2024	PAYOUT	.....	532	.....	532	.....	534	.....	424	0	108	.....	0	.....	0	0	0	21	02/01/2032	1.A .....	
..31292H-QN-7	Freddie Mac Gold Pool-FG C01361	.....	09/01/2024	PAYOUT	.....	241	.....	241	.....	243	.....	228	0	13	.....	0	.....	0	0	0	9	05/01/2032	1.A .....	
..313398-FC-8	Freddie Mac REMICS-FHR 2333 UZ	.....	09/01/2024	PAYOUT	.....	565	.....	565	.....	543	.....	639	0	(74)	.....	0	.....	0	0	0	25	07/01/2031	1.A .....	
..3133T1-RX-1	Freddie Mac REMICS-FHR 2329 ZA	.....	09/01/2024	PAYOUT	.....	4,200	.....	4,200	.....	3,990	.....	4,589	0	(389)	.....	0	.....	0	0	0	186	06/01/2031	1.A .....	
..3133TV-EW-2	Freddie Mac REMICS-FHR 2355 CE	.....	09/01/2024	PAYOUT	.....	642	.....	642	.....	635	.....	637	0	5	.....	0	.....	0	0	0	27	09/01/2031	1.A .....	
..313392-CW-8	Fannie Mae REMICS-FNR 2001-31 ZC	.....	09/01/2024	PAYOUT	.....	3,755	.....	3,755	.....	3,770	.....	4,059	0	(303)	.....	0	.....	0	0	0	168	07/01/2031	1.A .....	
..690353-RX-7	United States Internatio-UNSECURED	.....	08/27/2024	SINKING PAYMENT	.....	78,364	.....	78,364	.....	78,364	.....	78,367	0	(2)	.....	0	.....	0	0	0	3,479	02/27/2027	1.A .....	
..92812U-Q3-5	Virginia Housing Develop-REVENUE BONDS	.....	09/25/2024	CALL 100	.....	6,740	.....	6,740	.....	6,728	.....	6,728	0	0	0	0	0	0	0	0	213	12/25/2043	1.A FE .....	
<b>0909999999. Subtotal - Bonds - U.S. Special Revenues</b>					96,050	96,050	95,844	96,555	0	(514)	0	(514)	0	0	96,038	0	0	12	12	4,169	XXX	XXX		
..05949T-AX-7	Banc of America Funding -BAFC 2006-1 1A2	.....	09/01/2024	PAYOUT	.....	1,390	.....	1,388	.....	1,357	.....	1,373	0	15	.....	0	.....	0	0	0	54	01/01/2036	1.A FM .....	
..12667T-EG-6	Alternative Loan Trust 2-CIALT 2004-J2 3	.....	09/01/2024	PAYOUT	.....	1,108	.....	1,108	.....	1,090	.....	1,104	0	4	.....	0	.....	0	0	0	41	04/01/2034	1.A FM .....	
..126694-LC-0	CHL Mortgage Pass-Throug-CIHL 2005-24 A3	.....	09/01/2024	PAYOUT	.....	106	.....	106	.....	98	.....	90	0	15	.....	0	.....	0	0	0	3	11/01/2035	5.B FM .....	
..16165Y-AV-4	ChaseFlex Trust Multi-Cl-CFLX 2007-M1 2F	.....	09/01/2024	PAYOUT	.....	3,030	.....	4,199	.....	3,644	.....	2,765	0	1,225	.....	0	.....	0	0	0	75	08/01/2037	1.A FM .....	
..210518-CW-4	CONSUMERS ENERGY CO-SECURED	.....	08/31/2024	MATURITY	.....	1,000,000	.....	1,000,000	.....	998,980	.....	999,877	0	123	.....	0	.....	0	0	0	31,250	08/31/2024	1.E FE .....	
..40432B-AZ-2	HS1 Asset Loan Obligatio-HALO 2007-2 3A6	.....	09/01/2024	PAYOUT	.....	0	.....	(69)	.....	(60)	.....	(27)	0	33	.....	0	.....	0	0	0	(1)	09/01/2037	1.A FM .....	
..46617F-AA-2	JGNPT XVIII LLC-HENDR 2013-1A A	.....	09/16/2024	PAYOUT	.....	5,645	.....	5,641	.....	5,641	.....	5,638	0	7	.....	0	.....	0	0	0	121	04/15/2067	1.A FE .....	
..650119-AA-8	New York University-UNSECURED	.....	07/01/2024	CALL 100	.....	54,000	.....	54,000	.....	52,662	.....	53,419	0	(78)	.....	0	.....	53,340	0	660	660	2,827	07/01/2032	1.D FE .....
..778296-AA-1	Ross Stores Inc-SENIOR UNSECURED	.....	09/15/2024	MATURITY	.....	1,000,000	.....	1,000,000	.....	993,290	.....	999,427	0	573	.....	0	.....	1,000,000	0	0	0	33,750	09/15/2024	2.A FE .....
..78408L-AB-3	SC Johnson & Son Inc-SENIOR UNSECURED	.....	09/30/2024	MATURITY	.....	1,000,000	.....	1,000,000	.....	999,080	.....	999,900	0	100	.....	0	.....	1,000,000	0	0	0	16,750	09/30/2024	1.G FE .....
..85208N-AD-2	Sprint Spectrum Co LLC /-FIRST LIEN	.....	09/20/2024	SINKING PAYMENT	.....	125,000	.....	125,000	.....	125,000	.....	125,000	0	0	0	0	0	0	0	0	4,442	03/20/2025	1.F FE .....	
<b>1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)</b>					3,190,279	3,191,377	3,180,782	3,188,566	0	2,017	0	2,017	0	0	3,189,617	0	0	660	660	89,312	XXX	XXX		
<b>2509999997. Total - Bonds - Part 4</b>					3,286,475	3,287,573	3,276,773	3,285,267	0	1,503	0	1,503	0	0	3,285,801	0	0	672	672	93,488	XXX	XXX		
<b>2509999998. Total - Bonds - Part 5</b>					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		
<b>2509999999. Total - Bonds</b>					3,286,475	3,287,573	3,276,773	3,285,267	0	1,503	0	1,503	0	0	3,285,801	0	0	672	672	93,488	XXX	XXX		
<b>4509999997. Total - Preferred Stocks - Part 4</b>					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	
<b>4509999998. Total - Preferred Stocks - Part 5</b>					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		
<b>4509999999. Total - Preferred Stocks</b>					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	
<b>5989999997. Total - Common Stocks - Part 4</b>					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	
<b>5989999998. Total - Common Stocks - Part 5</b>					XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		
<b>5989999999. Total - Common Stocks</b>					0	XXX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	XXX	XXX	
<b>5999999999. Total - Preferred and Common Stocks</b>																								

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

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

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

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

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

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

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

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

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

**SCHEDULE E - PART 1 - CASH**

Month End Depository Balances

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

STATEMENT AS OF SEPTEMBER 30, 2024 OF THE MANHATTAN NATIONAL LIFE INSURANCE COMPANY

**SCHEDULE E - PART 2 - CASH EQUIVALENTS**

### Show Investments Owned End of Current Quarter