



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

ANNUAL STATEMENT

FOR THE YEAR ENDED DECEMBER 31, 2024

OF THE CONDITION AND AFFAIRS OF THE

MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NAIC Group Code

0435

0435

NAIC Company Code

63312

Employer's ID Number

13-1935920

(Current)

(Prior)

Organized under the Laws of

Ohio

State of Domicile or Port of Entry

OH

Country of Domicile

United States of America

Licensed as business type:

Life, Accident and Health [X]

Fraternal Benefit Societies []

Incorporated/Organized

12/29/1961

Commenced Business

08/13/1963

Statutory Home Office

191 Rosa Parks Street

Cincinnati, OH, US 45202

(Street and Number)

(City or Town, State, Country and Zip Code)

Main Administrative Office

191 Rosa Parks Street

Cincinnati, OH, US 45202

(Street and Number)

(City or Town, State, Country and Zip Code)

513-361-9000

(Area Code) (Telephone Number)

Mail Address

Post Office Box 5420

Cincinnati, OH, US 45201

(Street and Number or P.O. Box)

(City or Town, State, Country and Zip Code)

Primary Location of Books and Records

191 Rosa Parks Street

Cincinnati, OH, US 45202

(Street and Number)

(City or Town, State, Country and Zip Code)

513-361-9000

(Area Code) (Telephone Number)

Internet Website Address

www.massmutualascend.com

Statutory Statement Contact

Robert Mayhew Earle II

513-361-9077

(Name)

(Area Code) (Telephone Number)

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513-345-9484

(E-mail Address)

(FAX Number)

OFFICERS

Mark Francis Muething	Brian Patrick Sponaugle
John Paul Gruber	Isaac Cezar Hall

OTHER

Dominic Lusean Blue	Donna Marie Carrelli	Michael Harrison Haney
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DIRECTORS OR TRUSTEES

Dominic Lusean Blue	Elizabeth Ward Chicares	Susan Marie Cicco
Geoffrey James Craddock	Roger William Crandall	Vy Ho #
Paul Anthony LaPiana	Sears Andrew Merritt	Mark Francis Muething
Michael James O'Connor	Eric William Partlan	

State of

Ohio

County of

Hamilton

SS

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

Mark Francis Muething

John Paul Gruber

Brian Patrick Sponaugle

President

Secretary

Treasurer

Subscribed and sworn to before me this

day of

February 2025

a. Is this an original filing?

b. If no,

1. State the amendment number.....

2. Date filed

3. Number of pages attached.....

Yes [X] No []

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

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

ASSETS

	Current Year			Prior Year
	1	2	3	4
	Assets	Nonadmitted Assets	Net Admitted Assets (Cols. 1 - 2)	Net Admitted Assets
1. Bonds (Schedule D)	37,508,206,694		37,508,206,694	34,972,253,060
2. Stocks (Schedule D):				
2.1 Preferred stocks	297,875,760		297,875,760	201,026,229
2.2 Common stocks	778,776,013		778,776,013	716,418,595
3. Mortgage loans on real estate (Schedule B):				
3.1 First liens	5,123,099,533		5,123,099,533	4,256,509,561
3.2 Other than first liens.....			0	0
4. Real estate (Schedule A):				
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 (\$ 61,738,350 , Schedule E - Part 1), cash equivalents (\$ 2,973,539,949 , Schedule E - Part 2) and short-term investments (\$375,953,404 , Schedule DA)	3,411,231,703		3,411,231,703	2,211,326,604
6. Contract loans (including \$ premium notes)	27,524,475		27,524,475	29,952,551
7. Derivatives (Schedule DB)	875,707,311		875,707,311	771,436,338
8. Other invested assets (Schedule BA)	2,805,647,922	10,338,240	2,795,309,682	1,407,752,675
9. Receivables for securities	2,858,588		2,858,588	165,416,503
10. Securities lending reinvested collateral assets (Schedule DL)			0	0
11. Aggregate write-ins for invested assets	0	0	0	0
12. Subtotals, cash and invested assets (Lines 1 to 11)	50,830,927,999	10,338,240	50,820,589,759	44,732,092,116
13. Title plants less \$ charged off (for Title insurers only)			0	0
14. Investment income due and accrued	535,440,032		535,440,032	528,460,439
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection.....	605,530	8,801	596,729	1,059,361
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	6,510,453	2,614,645	3,895,808	4,562,423
15.3 Accrued retrospective premiums (\$) and contracts subject to redetermination (\$)			0	0
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	671,078		671,078	2,547,295
16.2 Funds held by or deposited with reinsured companies			0	0
16.3 Other amounts receivable under reinsurance contracts	154,186,738		154,186,738	451,644,041
17. Amounts receivable relating to uninsured plans			0	0
18.1 Current federal and foreign income tax recoverable and interest thereon	51,564,559		51,564,559	16,025,216
18.2 Net deferred tax asset	291,658,899		291,658,899	272,753,525
19. Guaranty funds receivable or on deposit	5,158,480		5,158,480	2,034,538
20. Electronic data processing equipment and software			0	0
21. Furniture and equipment, including health care delivery assets (\$)	4,434,946	4,434,946	0	0
22. Net adjustment in assets and liabilities due to foreign exchange rates			0	0
23. Receivables from parent, subsidiaries and affiliates	615,153		615,153	719,602
24. Health care (\$) and other amounts receivable			0	0
25. Aggregate write-ins for other-than-invested assets	643,329,694	111,623,362	531,706,332	533,545,687
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	52,525,103,561	129,019,994	52,396,083,567	46,545,444,243
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts	984,163,451		984,163,451	443,319,567
28. Total (Lines 26 and 27)	53,509,267,012	129,019,994	53,380,247,018	46,988,763,810
DETAILS OF WRITE-INS				
1101.			0	
1102.			0	
1103.			0	
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. Admitted Disallowed IMR	358,347,440	104,591,457	253,755,983	271,533,895
2502. Company-owned life insurance	229,829,784		229,829,784	223,142,978
2503. Accrued contractual fee income	29,842,711		29,842,711	32,372,894
2598. Summary of remaining write-ins for Line 25 from overflow page	25,309,759	7,031,905	18,277,854	6,495,920
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	643,329,694	111,623,362	531,706,332	533,545,687

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

LIABILITIES, SURPLUS AND OTHER FUNDS

	1	2
	Current Year	Prior Year
1. Aggregate reserve for life contracts \$36,488,387,785 (Exh. 5, Line 9999999) less \$ included in Line 6.3 (including \$ 446,615 Modco Reserve)	36,488,387,785	30,159,722,538
2. Aggregate reserve for accident and health contracts (including \$ Modco Reserve)	54,926,316	52,438,219
3. Liability for deposit-type contracts (Exhibit 7, Line 14, Col. 1) (including \$ Modco Reserve)	786,618,885	787,970,274
4. Contract claims:		
4.1 Life (Exhibit 8, Part 1, Line 4.4, Col. 1 less Col. 6)	160,301,171	164,654,288
4.2 Accident and health (Exhibit 8, Part 1, Line 4.4, Col. 6)	672,797	622,620
5. Policyholders' dividends/refunds to members \$ and coupons \$ due and unpaid (Exhibit 4, Line 10)	0	0
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)		
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 \$ 13,130 accident and health premiums (Exhibit 1, Part 1, Col. 1, sum of lines 4 and 14)	158,663	94,251
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 \$ 855,692 assumed and \$ ceded	855,692	684,959
9.4 Interest maintenance reserve (IMR, Line 6)	0	0
10. Commissions to agents due or accrued-life and annuity contracts \$ 3,223,981 accident and health \$ and deposit-type contract funds \$	3,223,981	7,033,605
11. Commissions and expense allowances payable on reinsurance assumed		
12. General expenses due or accrued (Exhibit 2, Line 12, Col. 7)	62,464,496	56,305,815
13. Transfers to Separate Accounts due or accrued (net) (including \$ 0 accrued for expense allowances recognized in reserves, net of reinsured allowances)	0	0
14. Taxes, licenses and fees due or accrued, excluding federal income taxes (Exhibit 3, Line 9, Col. 6)	443,234	0
15.1 Current federal and foreign income taxes, including \$ on realized capital gains (losses)		
15.2 Net deferred tax liability		
16. Unearned investment income	276,768	290,364
17. Amounts withheld or retained by reporting entity as agent or trustee	1,237,015	1,539,199
18. Amounts held for agents' account, including \$ 2,498,820 agents' credit balances	2,498,820	1,182,367
19. Remittances and items not allocated	69,622,317	109,425,533
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 (AVR, Line 16, Col. 7)	636,335,984	528,429,311
24.02 Reinsurance in unauthorized and certified (\$ 0) companies	0	0
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
24.04 Payable to parent, subsidiaries and affiliates	450,873	771,693
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance	7,290,472,951	9,967,999,333
24.08 Derivatives	413,598,701	528,221,597
24.09 Payable for securities	584,333,965	315,096,798
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	1,612,926,860	812,010,876
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	48,169,807,274	43,494,493,640
27. From Separate Accounts Statement	984,163,451	443,319,567
28. Total liabilities (Lines 26 and 27)	49,153,970,725	43,937,813,207
29. Common capital stock	1,675,000	1,507,500
30. Preferred capital stock		
31. Aggregate write-ins for other-than-special surplus funds	0	0
32. Surplus notes		
33. Gross paid in and contributed surplus (Page 3, Line 33, Col. 2 plus Page 4, Line 51.1, Col. 1)	2,148,400,344	815,178,800
34. Aggregate write-ins for special surplus funds	253,755,983	271,533,895
35. Unassigned funds (surplus)	1,822,444,966	1,962,730,408
36. Less treasury stock, at cost:		
36.1 shares common (value included in Line 29 \$)		
36.2 shares preferred (value included in Line 30 \$)		
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$ 0 in Separate Accounts Statement)	4,224,601,293	3,049,443,103
38. Totals of Lines 29, 30 and 37 (Page 4, Line 55)	4,226,276,293	3,050,950,603
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	53,380,247,018	46,988,763,810
DETAILS OF WRITE-INS		
2501. Derivative collateral	1,564,191,809	763,875,478
2502. Unclaimed property	37,119,075	32,408,582
2503. Accounts payable	11,615,976	15,726,816
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)	1,612,926,860	812,010,876
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. Admitted Disallowed IMR	253,755,983	271,533,895
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)	253,755,983	271,533,895

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

SUMMARY OF OPERATIONS

	1 Current Year	2 Prior Year
1. Premiums and annuity considerations for life and accident and health contracts	8,551,179,527	8,506,770,768
2. Considerations for supplementary contracts with life contingencies	0	0
3. Net investment income (Exhibit of Net Investment Income, Line 17)	2,648,248,352	1,918,445,895
4. Amortization of Interest Maintenance Reserve (IMR, Line 5)	(34,885,005)	10,386,002
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0	0
6. Commissions and expense allowances on reinsurance ceded (Exhibit 1, Part 2, Line 26.1, Col. 1)	(49,129,354)	70,233,642
7. Reserve adjustments on reinsurance ceded	0	0
8. Miscellaneous Income:		
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0	
8.2 Charges and fees for deposit-type contracts	10,489,669	11,936,497
8.3 Aggregate write-ins for miscellaneous income	52,362,830	47,277,222
9. Total (Lines 1 to 8.3)	11,178,266,019	10,565,050,026
10. Death benefits	16,123,640	16,774,548
11. Matured endowments (excluding guaranteed annual pure endowments)	2,453,407	11,937,177
12. Annuity benefits (Exhibit 8, Part 2, Line 6.4, Cols. 4 + 5 minus Analysis of Operations Summary, Line 18, Col. 1)	813,491,676	715,138,835
13. Disability benefits and benefits under accident and health contracts	4,964,082	4,296,617
14. Coupons, guaranteed annual pure endowments and similar benefits	0	0
15. Surrender benefits and withdrawals for life contracts	2,749,181,748	2,434,702,622
16. Group conversions	0	0
17. Interest and adjustments on contract or deposit-type contract funds	150,811,240	156,850,177
18. Payments on supplementary contracts with life contingencies	0	0
19. Increase in aggregate reserves for life and accident and health contracts	6,331,153,344	5,901,776,775
20. Totals (Lines 10 to 19)	10,068,179,137	9,241,476,751
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only) (Exhibit 1, Part 2, Line 31, Col. 1)	463,885,872	393,686,528
22. Commissions and expense allowances on reinsurance assumed (Exhibit 1, Part 2, Line 26.2, Col. 1)	509,759	498,774
23. General insurance expenses and fraternal expenses (Exhibit 2, Line 10, Columns 1, 2, 3, 4 and 6)	171,524,091	169,800,801
24. Insurance taxes, licenses and fees, excluding federal income taxes (Exhibit 3, Line 7, Cols. 1 + 2 + 3 + 5)	46,640,150	12,712,335
25. Increase in loading on deferred and uncollected premiums	(253,994)	(372,198)
26. Net transfers to or (from) Separate Accounts net of reinsurance	521,139,514	356,807,133
27. Aggregate write-ins for deductions	0	0
28. Totals (Lines 20 to 27)	11,271,624,529	10,174,610,124
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(93,358,510)	390,439,902
30. Dividends to policyholders and refunds to members	10,851	8,940
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(93,369,361)	390,430,962
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	85,679,105	241,836,467
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)	(179,048,466)	148,594,495
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$ 78,132,651 (excluding taxes of \$ (26,624,953) transferred to the IMR)	(74,862,069)	(153,692,165)
35. Net income (Line 33 plus Line 34)	(253,910,535)	(5,097,670)
CAPITAL AND SURPLUS ACCOUNT		
36. Capital and surplus, December 31, prior year (Page 3, Line 38, Col. 2)	3,050,950,603	2,832,582,838
37. Net income (Line 35)	(253,910,535)	(5,097,670)
38. Change in net unrealized capital gains (losses) less capital gains tax of \$ 117,075,203	382,459,752	165,317,385
39. Change in net unrealized foreign exchange capital gain (loss)	(61,363,123)	19,905,727
40. Change in net deferred income tax	99,850,813	214,574,463
41. Change in nonadmitted assets	(74,314,941)	(22,802,347)
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	0	0
44. Change in asset valuation reserve	(107,906,673)	48,634,331
45. Change in treasury stock (Page 3, Lines 36.1 and 36.2, Col. 2 minus Col. 1)	0	0
46. Surplus (contributed to) withdrawn from Separate Accounts during period		
47. Other changes in surplus in Separate Accounts Statement		
48. Change in surplus notes		
49. Cumulative effect of changes in accounting principles		
50. Capital changes:		
50.1 Paid in		
50.2 Transferred from surplus (Stock Dividend)	167,500	
50.3 Transferred to surplus		
51. Surplus adjustment:		
51.1 Paid in	1,333,221,544	0
51.2 Transferred to capital (Stock Dividend)	(167,500)	
51.3 Transferred from capital		
51.4 Change in surplus as a result of reinsurance		
52. Dividends to stockholders	(100,000,000)	(200,000,000)
53. Aggregate write-ins for gains and losses in surplus	(42,711,147)	(2,164,124)
54. Net change in capital and surplus for the year (Lines 37 through 53)	1,175,325,690	218,367,765
55. Capital and surplus, December 31, current year (Lines 36 + 54) (Page 3, Line 38)	4,226,276,293	3,050,950,603
DETAILS OF WRITE-INS		
08.301. Contractual rider fee income	42,691,252	37,552,904
08.302. Interest on company-owned life insurance	6,686,806	8,921,000
08.303. Reinsurance experience refund	628,108	748,500
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	2,356,664	54,818
08.399. Totals (Lines 08.301 through 08.303 plus 08.398)(Line 8.3 above)	52,362,830	47,277,222
2701.		0
2702.		0
2703.		
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0
2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	0	0
5301. Correction of error, net of tax	(42,711,147)	(2,164,124)
5302.		
5303.		
5398. Summary of remaining write-ins for Line 53 from overflow page	0	0
5399. Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)	(42,711,147)	(2,164,124)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

CASH FLOW

	1	2
	Current Year	Prior Year
Cash from Operations		
1. Premiums collected net of reinsurance	8,552,623,758	8,509,223,422
2. Net investment income	3,208,878,371	2,279,256,583
3. Miscellaneous income	5,266,911	119,187,230
4. Total (Lines 1 through 3)	11,766,769,040	10,907,667,235
5. Benefit and loss related payments	3,291,013,240	3,375,051,208
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	0	0
7. Commissions, expenses paid and aggregate write-ins for deductions	678,156,869	570,446,425
8. Dividends paid to policyholders	10,851	8,940
9. Federal and foreign income taxes paid (recovered) net of \$ 51,507,698 tax on capital gains (losses)	172,726,146	144,633,518
10. Total (Lines 5 through 9)	4,141,907,106	4,090,140,091
11. Net cash from operations (Line 4 minus Line 10)	7,624,861,934	6,817,527,144
Cash from Investments		
12. Proceeds from investments sold, matured or repaid:		
12.1 Bonds	6,989,775,775	8,045,962,540
12.2 Stocks	96,391,737	131,092,554
12.3 Mortgage loans	1,005,272,453	715,135,948
12.4 Real estate	0	0
12.5 Other invested assets	173,783,581	322,063,704
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	(1,081,226)	12,027
12.7 Miscellaneous proceeds	155,924,192	56,688,129
12.8 Total investment proceeds (Lines 12.1 to 12.7)	8,420,066,512	9,270,954,902
13. Cost of investments acquired (long-term only):		
13.1 Bonds	9,943,142,339	10,104,084,572
13.2 Stocks	166,806,136	128,658,375
13.3 Mortgage loans	1,849,140,811	1,881,105,539
13.4 Real estate	0	0
13.5 Other invested assets	307,938,733	339,973,269
13.6 Miscellaneous applications	785,996,926	796,679,588
13.7 Total investments acquired (Lines 13.1 to 13.6)	13,053,024,945	13,250,501,343
14. Net increase/(decrease) in contract loans and premium notes	(2,428,076)	(1,506,611)
15. Net cash from investments (Line 12.8 minus Line 13.7 minus Line 14)	(4,630,530,356)	(3,978,039,830)
Cash from Financing and Miscellaneous Sources		
16. Cash provided (applied):		
16.1 Surplus notes, capital notes	0	0
16.2 Capital and paid in surplus, less treasury stock	98,325,299	0
16.3 Borrowed funds	0	0
16.4 Net deposits on deposit-type contracts and other insurance liabilities	(178,474,041)	(136,485,911)
16.5 Dividends to stockholders	100,000,000	200,000,000
16.6 Other cash provided (applied)	(1,614,277,737)	(2,282,911,755)
17. Net cash from financing and miscellaneous sources (Lines 16.1 to 16.4 minus Line 16.5 plus Line 16.6)	(1,794,426,479)	(2,619,397,666)
RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS		
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	1,199,905,099	220,089,648
19. Cash, cash equivalents and short-term investments:		
19.1 Beginning of year	2,211,326,604	1,991,236,956
19.2 End of year (Line 18 plus Line 19.1)	3,411,231,702	2,211,326,604

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

20.0001. Bond conversions and refinancing	288,779,748	255,431,290
20.0002. Common stock conversions	2,797,806	34,388,517
20.0003. Preferred stock conversions	166,555	442,451
20.0004. Transfer preferred stock to bond	11,701,250	
20.0005. BA asset contribution from parent	1,234,896,245	
20.0006. Net investment income payment-in-kind for bonds	3,946,327	
20.0007. Common stocks transferred to other invested assets		6,408,000
20.0008. Bonds transferred to other invested assets		18,555,573
20.0009. Other invested assets transferred to common stocks		15,499,684

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ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - INDIVIDUAL LIFE INSURANCE ^(b)

	1	2	3	4	5	6	7	8	9	10	11	12
	Total	Industrial Life	Whole Life	Term Life	Indexed Life	Universal Life	Universal Life With Secondary Guarantees	Variable Life	Variable Universal Life	Credit Life (c)	Other Individual Life	YRT Mortality Risk Only
1. Premiums for life contracts ^(a)	11,444,317		1,881,355	6,274,728		3,288,234						
2. Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3. Net investment income	6,167,785		1,471,646	2,807,759		1,888,380						
4. Amortization of Interest Maintenance Reserve (IMR)	0											
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0											
6. Commissions and expense allowances on reinsurance ceded	2,102,015		501,545	956,900		643,570						
7. Reserve adjustments on reinsurance ceded	0											
8. Miscellaneous Income:												
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0											
8.2 Charges and fees for deposit-type contracts	0											
8.3 Aggregate write-ins for miscellaneous income	623,951	0	148,876	284,041	0	191,034	0	0	0	0	0	0
9. Totals (Lines 1 to 8.3)	20,338,068	0	4,003,422	10,323,428	0	6,011,218	0	0	0	0	0	0
10. Death benefits	16,018,642		3,584,605	8,812,822		3,621,215						
11. Matured endowments (excluding guaranteed annual pure endowments)	2,452,018		32,692	2,416,737		2,589						
12. Annuity benefits	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
13. Disability benefits and benefits under accident and health contracts	0											
14. Coupons, guaranteed annual pure endowments and similar benefits	0											
15. Surrender benefits and withdrawals for life contracts	2,035,638		640,810	225,226		1,169,602						
16. Group conversions	0											
17. Interest and adjustments on contract or deposit-type contract funds	0											
18. Payments on supplementary contracts with life contingencies	0											
19. Increase in aggregate reserves for life and accident and health contracts ...	(3,367,654)		(1,214,871)	(1,305,450)		(847,333)						
20. Totals (Lines 10 to 19)	17,138,644	0	3,043,236	10,149,335	0	3,946,073	0	0	0	0	0	0
21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	342,491		81,719	155,912		104,860						XXX
22. Commissions and expense allowances on reinsurance assumed	(10,000)		(2,386)	(4,552)		(3,062)						
23. General insurance expenses	5,193,074		2,464,040	1,568,377		1,160,657						
24. Insurance taxes, licenses and fees, excluding federal income taxes	3,129,651		1,484,975	945,196		699,480						
25. Increase in loading on deferred and uncollected premiums	(263,196)		(62,799)	(119,815)		(80,582)						
26. Net transfers to or (from) Separate Accounts net of reinsurance	0											
27. Aggregate write-ins for deductions	0	0	0	0	0	0	0	0	0	0	0	0
28. Totals (Lines 20 to 27)	25,530,664	0	7,008,785	12,694,453	0	5,827,426	0	0	0	0	0	0
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(5,192,596)	0	(3,005,363)	(2,371,025)	0	183,792	0	0	0	0	0	0
30. Dividends to policyholders and refunds to members	10,851			10,851								
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(5,203,447)	0	(3,005,363)	(2,381,876)	0	183,792	0	0	0	0	0	0
32. Federal income taxes incurred (excluding tax on capital gains)	(1,092,724)		(631,126)	(500,194)		38,596						
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)	(4,110,723)	0	(2,374,237)	(1,881,682)	0	145,196	0	0	0	0	0	0
34. Policies/certificates in force end of year	39,571		19,069	11,455		9,047						
DETAILS OF WRITE-INS												
08.301. Reinsurance Experience Refund	623,951		148,876	284,041		191,034						
08.302.												
08.303.												
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	623,951	0	148,876	284,041	0	191,034	0	0	0	0	0	0
2701.												
2702.												
2703.												
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	0	0	0	0	0	0	0	0	0	0	0	0

(a) Include premium amounts for preneed plans included in Line 1

(b) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

(c) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - GROUP LIFE INSURANCE (c)

	1	2	3	4	5	6	7	8	9
	Total	Whole Life	Term Life	Universal Life	Variable Life	Variable Universal Life	Credit Life (d)	Other Group Life (a)	YRT Mortality Risk Only
1. Premiums for life contracts ^(b)	0								
2. Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3. Net investment income	41,084	41,084							
4. Amortization of Interest Maintenance Reserve (IMR)	0								
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0								
6. Commissions and expense allowances on reinsurance ceded	0								
7. Reserve adjustments on reinsurance ceded	0								
8. Miscellaneous Income:									
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0								
8.2 Charges and fees for deposit-type contracts	0								
8.3 Aggregate write-ins for miscellaneous income	4,156	4,156	0	0	0	0	0	0	0
9. Totals (Lines 1 to 8.3)	45,240	45,240	0	0	0	0	0	0	0
10. Death benefits	104,998	104,998							
11. Matured endowments (excluding guaranteed annual pure endowments)	1,389	1,389							
12. Annuity benefits	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
13. Disability benefits and benefits under accident and health contracts	0								
14. Coupons, guaranteed annual pure endowments and similar benefits	0								
15. Surrender benefits and withdrawals for life contracts	406	406							
16. Group conversions	0								
17. Interest and adjustments on contract or deposit-type contract funds	0								
18. Payments on supplementary contracts with life contingencies	0								
19. Increase in aggregate reserves for life and accident and health contracts	(67,379)	(67,379)							
20. Totals (Lines 10 to 19)	39,414	39,414	0	0	0	0	0	0	0
21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	0								XXX
22. Commissions and expense allowances on reinsurance assumed	0								
23. General insurance expenses	263,434	263,434							
24. Insurance taxes, licenses and fees, excluding federal income taxes	158,761	158,761							
25. Increase in loading on deferred and uncollected premiums	0								
26. Net transfers to or (from) Separate Accounts net of reinsurance	0								
27. Aggregate write-ins for deductions	0	0	0	0	0	0	0	0	0
28. Totals (Lines 20 to 27)	461,609	461,609	0	0	0	0	0	0	0
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(416,369)	(416,369)	0	0	0	0	0	0	0
30. Dividends to policyholders and refunds to members	0								
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(416,369)	(416,369)	0	0	0	0	0	0	0
32. Federal income taxes incurred (excluding tax on capital gains)	(87,437)	(87,437)							
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)	(328,932)	(328,932)	0	0	0	0	0	0	0
34. Policies/certificates in force end of year	2,033	2,033							
DETAILS OF WRITE-INS									
08.301. Reinsurance experience refund	4,156	4,156							
08.302.									
08.303.									
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0	0	0	0	0	0	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	4,156	4,156	0	0	0	0	0	0	0
2701.									
2702.									
2703.									
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0	0	0	0	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	0	0	0	0	0	0	0	0	0

(a) Includes the following amounts for FEGLI/SGLI: Line 1 , Line 10 , Line 16 , Line 23 , Line 24
(b) Include premium amounts for preneed plans included in Line 1
(c) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.
(d) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - INDIVIDUAL ANNUITIES ^(a)

	1	Deferred				6 Life Contingent Payout (Immediate and Annuitizations)	7 Other Annuities
		2	3	4	5		
	Total	Fixed Annuities	Indexed Annuities	Variable Annuities with Guarantees	Variable Annuities Without Guarantees		
1. Premiums for individual annuity contracts	8,534,851,039	2,983,920,689	5,529,296,134			21,634,216	
2. Considerations for supplementary contracts with life contingencies	0	XXX	XXX	XXX	XXX		XXX
3. Net investment income	2,549,487,669	824,308,176	1,708,048,757			17,130,736	
4. Amortization of Interest Maintenance Reserve (IMR)	(33,637,887)	(12,761,412)	(20,635,089)			(241,386)	
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0						
6. Commissions and expense allowances on reinsurance ceded	(52,427,296)	17,693,025	(70,567,229)			446,908	
7. Reserve adjustments on reinsurance ceded	0						
8. Miscellaneous Income:							
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0						
8.2 Charges and fees for deposit-type contracts	10,489,669	10,489,669	0			0	
8.3 Aggregate write-ins for miscellaneous income	51,411,425	3,336,489	48,012,360	0	0	62,576	0
9. Totals (Lines 1 to 8.3)	11,060,174,619	3,826,986,636	7,194,154,933	0	0	39,033,050	0
10. Death benefits	0						
11. Matured endowments (excluding guaranteed annual pure endowments)	0						
12. Annuity benefits	743,768,734	288,055,460	406,305,333			49,407,941	
13. Disability benefits and benefits under accident and health contracts	0						
14. Coupons, guaranteed annual pure endowments and similar benefits	0						
15. Surrender benefits and withdrawals for life contracts	2,710,433,339	744,281,068	1,964,931,915			1,220,356	
16. Group conversions	0						
17. Interest and adjustments on contract or deposit-type contract funds	150,811,240	150,811,240	0			0	
18. Payments on supplementary contracts with life contingencies	0	0	0	0	0	0	0
19. Increase in aggregate reserves for life and accident and health contracts	6,396,990,509	2,264,866,259	4,123,241,485			8,882,765	
20. Totals (Lines 10 to 19)	10,002,003,822	3,448,014,027	6,494,478,733	0	0	59,511,062	0
21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	463,064,375	86,236,505	376,827,870			0	
22. Commissions and expense allowances on reinsurance assumed	3,690	3,690	0			0	
23. General insurance expenses	147,291,120	57,036,085	88,532,274			1,722,761	
24. Insurance taxes, licenses and fees, excluding federal income taxes	38,450,165	14,889,200	23,111,240			449,725	
25. Increase in loading on deferred and uncollected premiums	0						
26. Net transfers to or (from) Separate Accounts net of reinsurance.....	521,139,514		521,139,514			0	
27. Aggregate write-ins for deductions	0	0	0	0	0	0	0
28. Totals (Lines 20 to 27)	11,171,952,686	3,606,179,507	7,504,089,631	0	0	61,683,548	0
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	(111,778,067)	220,807,129	(309,934,698)	0	0	(22,650,498)	0
30. Dividends to policyholders and refunds to members	0						
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(111,778,067)	220,807,129	(309,934,698)	0	0	(22,650,498)	0
32. Federal income taxes incurred (excluding tax on capital gains)	81,813,277	101,151,351	(14,581,469)			(4,756,605)	
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)	(193,591,344)	119,655,778	(295,353,229)	0	0	(17,893,893)	0
34. Policies/certificates in force end of year	366,899	141,799	220,836			4,264	
DETAILS OF WRITE-INS							
08.301. Contractual rider fee income	42,691,252	28,265	42,662,987				
08.302. Interest on company-owned life insurance	6,447,760	2,446,125	3,955,366			46,269	
08.303. Reinsurance experience refund	0	0	0				
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	2,272,413	862,099	1,394,007	0	0	16,307	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	51,411,425	3,336,489	48,012,360	0	0	62,576	0
2701.							
2702.							
2703.							
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0	0	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	0	0	0	0	0	0	0

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which which columns are affected.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - GROUP ANNUITIES (a)

	1 Total	Deferred				6 Life Contingent Payout (Immediate and Annuitizations)	7 Other Annuities
		2 Fixed Annuities	3 Indexed Annuities	4 Variable Annuities with Guarantees	5 Variable Annuities Without Guarantees		
1. Premiums for group annuity contracts	2,028,320	1,949,900				78,420	
2. Considerations for supplementary contracts with life contingencies	0	XXX	XXX	XXX	XXX		XXX
3. Net investment income	88,526,187	23,745,168				64,781,019	
4. Amortization of Interest Maintenance Reserve (IMR)	(1,247,118)	(336,418)				(910,700)	
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0						
6. Commissions and expense allowances on reinsurance ceded	1,059,191	1,059,191					
7. Reserve adjustments on reinsurance ceded	0						
8. Miscellaneous Income:							
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0						
8.2 Charges and fees for deposit-type contracts	0						
8.3 Aggregate write-ins for miscellaneous income	323,298	87,212	0	0	0	236,086	0
9. Totals (Lines 1 to 8.3)	90,689,878	26,505,053	0	0	0	64,184,825	0
10. Death benefits	0						
11. Matured endowments (excluding guaranteed annual pure endowments)	0						
12. Annuity benefits	69,722,942	4,271,745				65,451,197	
13. Disability benefits and benefits under accident and health contracts	0						
14. Coupons, guaranteed annual pure endowments and similar benefits	0						
15. Surrender benefits and withdrawals for life contracts	36,712,365	35,610,965				1,101,400	
16. Group conversions	0						
17. Interest and adjustments on contract or deposit-type contract funds	0						
18. Payments on supplementary contracts with life contingencies	0						
19. Increase in aggregate reserves for life and accident and health contracts	(64,890,229)	(18,250,968)				(46,639,261)	
20. Totals (Lines 10 to 19)	41,545,078	21,631,742	0	0	0	19,913,336	0
21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	342,270	342,270				0	
22. Commissions and expense allowances on reinsurance assumed	0	0				0	
23. General insurance expenses	18,776,463	11,532,776				7,243,687	
24. Insurance taxes, licenses and fees, excluding federal income taxes	4,901,573	3,010,617				1,890,956	
25. Increase in loading on deferred and uncollected premiums	0						
26. Net transfers to or (from) Separate Accounts net of reinsurance	0						
27. Aggregate write-ins for deductions	0	0	0	0	0	0	0
28. Totals (Lines 20 to 27)	65,565,384	36,517,405	0	0	0	29,047,979	0
29. Net gain from operations before dividends to policyholders, refunds to members and federal income taxes (Line 9 minus Line 28)	25,124,494	(10,012,352)	0	0	0	35,136,846	0
30. Dividends to policyholders and refunds to members	0						
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	25,124,494	(10,012,352)	0	0	0	35,136,846	0
32. Federal income taxes incurred (excluding tax on capital gains)	5,276,144	(2,102,594)				7,378,738	
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)	19,848,350	(7,909,758)	0	0	0	27,758,108	0
34. Policies/certificates in force end of year	45,423	27,739				17,684	
DETAILS OF WRITE-INS							
08.301. Contractual rider fee income	0					0	
08.302. Interest on company-owned life insurance	239,049	64,485				174,564	
08.303. Reinsurance experience refund	0					0	
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	84,249	22,727	0	0	0	61,522	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	323,298	87,212	0	0	0	236,086	0
2701.							
2702.							
2703.							
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0	0	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	0	0	0	0	0	0	0

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
ANALYSIS OF OPERATIONS BY LINES OF BUSINESS - ACCIDENT AND HEALTH (a)

	1	Comprehensive (Hospital & Medical)		4	5	6	7	8	9	10	11	12	13
		2	3										
		Individual	Group										
	Total			Medicare Supplement	Vision Only	Dental Only	Federal Employees Health Benefits Plan	Title XVIII Medicare	Title XIX Medicaid	Credit A&H	Disability Income	Long-Term Care	Other Health
1. Premiums for accident and health contracts	2,855,851											2,855,851	
2. Considerations for supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3. Net investment income	4,025,627											4,025,627	
4. Amortization of Interest Maintenance Reserve (IMR)	0												
5. Separate Accounts net gain from operations excluding unrealized gains or losses	0												
6. Commissions and expense allowances on reinsurance ceded	136,736											136,736	
7. Reserve adjustments on reinsurance ceded	0												
8. Miscellaneous Income:													
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	0												
8.2 Charges and fees for deposit-type contracts	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
8.3 Aggregate write-ins for miscellaneous income	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Totals (Lines 1 to 8.3)	7,018,214	0	0	0	0	0	0	0	0	0	0	7,018,214	0
10. Death benefits	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
11. Matured endowments (excluding guaranteed annual pure endowments)	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
12. Annuity benefits	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
13. Disability benefits and benefits under accident and health contracts	4,964,082											4,964,082	
14. Coupons, guaranteed annual pure endowments and similar benefits	0												
15. Surrender benefits and withdrawals for life contracts	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
16. Group conversions	0												
17. Interest and adjustments on contract or deposit-type contract funds	0												
18. Payments on supplementary contracts with life contingencies	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
19. Increase in aggregate reserves for life and accident and health contracts	2,488,097											2,488,097	
20. Totals (Lines 10 to 19)	7,452,179	0	0	0	0	0	0	0	0	0	0	7,452,179	0
21. Commissions on premiums, annuity considerations and deposit-type contract funds (direct business only)	136,736											136,736	
22. Commissions and expense allowances on reinsurance assumed	516,069											516,069	
23. General insurance expenses	0											0	
24. Insurance taxes, licenses and fees, excluding federal income taxes	0												
25. Increase in loading on deferred and uncollected premiums	9,202											9,202	
26. Net transfers to or (from) Separate Accounts net of reinsurance	0												
27. Aggregate write-ins for deductions	0	0	0	0	0	0	0	0	0	0	0	0	0
28. Totals (Lines 20 to 27)	8,114,186	0	0	0	0	0	0	0	0	0	0	8,114,186	0
29. Net gain from operations before dividends to policyholders, and refunds to members and federal income taxes (Line 9 minus Line 28)	(1,095,972)	0	0	0	0	0	0	0	0	0	0	(1,095,972)	0
30. Dividends to policyholders and refunds to members	0												
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	(1,095,972)	0	0	0	0	0	0	0	0	0	0	(1,095,972)	0
32. Federal income taxes incurred (excluding tax on capital gains)	(230,154)											(230,154)	
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)	(865,818)	0	0	0	0	0	0	0	0	0	0	(865,818)	0
34. Policies/certificates in force end of year	1,197											1,197	
DETAILS OF WRITE-INS													
08.301.													
08.302.													
08.303.													
08.398. Summary of remaining write-ins for Line 8.3 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0	0
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	0	0	0	0	0	0	0	0	0	0	0	0	0
2701.													
2702.													
2703.													
2798. Summary of remaining write-ins for Line 27 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0	0
2799. Totals (Lines 2701 through 2703 plus 2798) (Line 27 above)	0	0	0	0	0	0	0	0	0	0	0	0	0

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - INDIVIDUAL LIFE INSURANCE (a)

	1	2	3	4	5	6	7	8	9	10	11	12
	Total	Industrial Life	Whole Life	Term Life	Indexed Life	Universal Life	Universal Life With Secondary Guarantees	Variable Life	Variable Universal Life	Credit Life ^(b) (N/A Fraternal)	Other Individual Life	YRT Mortality Risk Only
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded)												
1. Reserve December 31 of prior year	129,387,923	0	31,077,894	58,787,431	0	39,522,598	0	0	0	0	0	0
2. Tabular net premiums or considerations	13,245,250		2,734,072	8,661,583		1,849,595						
3. Present value of disability claims incurred	192,141		13,073	179,068								
4. Tabular interest	5,623,086		1,177,298	2,880,285		1,565,503						
5. Tabular less actual reserve released	152,254		8,199	144,338		(283)						
6. Increase in reserve on account of change in valuation basis	0											
6.1 Change in excess of VM-20 deterministic/stochastic reserve over net premium reserve	0	XXX								XXX		
7. Other increases (net)	(104,621)		204,480	(328,312)		19,211						
8. Totals (Lines 1 to 7)	148,496,033	0	35,215,016	70,324,393	0	42,956,624	0	0	0	0	0	0
9. Tabular cost	16,089,389		3,363,755	10,106,637		2,618,997						
10. Reserves released by death	1,604,828		1,000,433	95,302		509,093						
11. Reserves released by other terminations (net)	4,479,466		967,251	2,358,946		1,153,269						
12. Annuity, supplementary contract and disability payments involving life contingencies	302,081		20,554	281,527								
13. Net transfers to or (from) Separate Accounts	0											
14. Total Deductions (Lines 9 to 13)	22,475,764	0	5,351,993	12,842,412	0	4,281,359	0	0	0	0	0	0
15. Reserve December 31 of current year	126,020,269	0	29,863,023	57,481,981	0	38,675,265	0	0	0	0	0	0
Cash Surrender Value and Policy Loans												
16. CSV Ending balance December 31, current year	87,882,829		47,008,811			40,874,018						
17. Amount Available for Policy Loans Based upon Line 16 CSV	79,239,497		38,365,479			40,874,018						

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

(b) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - GROUP LIFE INSURANCE (a)
(N/A Fraternal)

	1	2	3	4	5	6	7	8	9
	Total	Whole Life	Term Life	Universal Life	Variable Life	Variable Universal Life	Credit Life ^(b)	Other Group Life	YRT Mortality Risk Only
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded)									
1. Reserve December 31 of prior year	884,336	884,336	0	0	0	0	0	0	0
2. Tabular net premiums or considerations	0								
3. Present value of disability claims incurred	0								
4. Tabular interest	38,814	38,814							
5. Tabular less actual reserve released	0								
6. Increase in reserve on account of change in valuation basis	0								
7. Other increases (net)	0								
8. Totals (Lines 1 to 7)	923,150	923,150	0	0	0	0	0	0	0
9. Tabular cost	19,184	19,184							
10. Reserves released by death	85,226	85,226							
11. Reserves released by other terminations (net)	1,783	1,783							
12. Annuity, supplementary contract and disability payments involving life contingencies	0								
13. Net transfers to or (from) Separate Accounts	0								
14. Total Deductions (Lines 9 to 13)	106,193	106,193	0	0	0	0	0	0	0
15. Reserve December 31 of current year	816,957	816,957	0	0	0	0	0	0	0
Cash Surrender Value and Policy Loans									
16. CSV Ending balance December 31, current year	816,958	816,958							
17. Amount Available for Policy Loans Based upon Line 16 CSV	816,958	816,958							

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.
(b) Individual and Group Credit Life are combined and included on page. (Indicate whether included with Individual or Group.)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - INDIVIDUAL ANNUITIES (a)

	1 Total	Deferred				6 Life Contingent Payout (Immediate and Annuityizations)	7 Other Annuities
		2 Fixed Annuities	3 Indexed Annuities	4 Variable Annuities with Guarantees	5 Variable Annuities without Guarantees		
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded)							
1. Reserve December 31 of prior year	28,810,286,089	11,010,934,673	17,574,096,956	0	0	225,254,460	0
2. Tabular net premiums or considerations	9,034,403,048	3,087,658,334	5,903,662,530			43,082,184	
3. Present value of disability claims incurred	XXX	XXX	XXX	XXX	XXX	XXX	XXX
4. Tabular interest	2,538,478,208	586,902,964	1,939,019,053			12,556,191	
5. Tabular less actual reserve released	2,199,557		744,160			1,455,397	
6. Increase in reserve on account of change in valuation basis	0						
7. Other increases (net)	2,967,576,308	531,411,656	2,438,001,827			(1,837,175)	
8. Totals (Lines 1 to 7)	43,352,943,210	15,216,907,627	27,855,524,526	0	0	280,511,057	0
9. Tabular cost	0						
10. Reserves released by death	XXX	XXX	XXX	XXX	XXX	XXX	XXX
11. Reserves released by other terminations (net)	7,579,345,562	1,941,078,635	5,637,046,571			1,220,356	
12. Annuity, supplementary contract and disability payments involving life contingencies	45,181,536	28,060				45,153,476	
13. Net transfers to or (from) Separate Accounts	521,139,514		521,139,514				
14. Total Deductions (Lines 9 to 13)	8,145,666,612	1,941,106,695	6,158,186,085	0	0	46,373,832	0
15. Reserve December 31 of current year	35,207,276,598	13,275,800,932	21,697,338,441	0	0	234,137,225	0
Cash Surrender Value and Policy Loans							
16. CSV Ending balance December 31, current year	33,945,040,953	12,311,891,619	21,633,149,334				
17. Amount Available for Policy Loans Based upon Line 16 CSV	33,936,193,885	12,304,145,812	21,632,048,073				

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

ANALYSIS OF INCREASE IN RESERVES DURING THE YEAR - GROUP ANNUITIES ^(a)

(N/A Fraternal)

	1 Total	Deferred				6 Life Contingent Payout (Immediate and Annuitizations)	7 Other Annuities
		2 Fixed Annuities	3 Indexed Annuities	4 Variable Annuities with Guarantees	5 Variable Annuities without Guarantees		
Involving Life or Disability Contingencies (Reserves) (Net of Reinsurance Ceded)							
1. Reserve December 31 of prior year	1,219,164,188	329,250,849	0	0	0	889,913,339	0
2. Tabular net premiums or considerations	4,917,399	4,838,979				78,420	
3. Present value of disability claims incurred .....	.XXX	.XXX	.XXX	.XXX	.XXX	.XXX	.XXX
4. Tabular interest	49,171,671	27,836,076				21,335,595	
5. Tabular less actual reserve released	(1,022,509)					(1,022,509)	
6. Increase in reserve on account of change in valuation basis	0						
7. Other increases (net)	30,480,704	30,475,613				5,091	
8. Totals (Lines 1 to 7)	1,302,711,453	392,401,517	0	0	0	910,309,936	0
9. Tabular cost	0						
10. Reserves released by death .....	.XXX	.XXX	.XXX	.XXX	.XXX	.XXX	.XXX
11. Reserves released by other terminations (net)	81,388,616	81,388,616					
12. Annuity, supplementary contract and disability payments involving life contingencies	67,048,878	13,020				67,035,858	
13. Net transfers to or (from) Separate Accounts	0						
14. Total Deductions (Lines 9 to 13)	148,437,494	81,401,636	0	0	0	67,035,858	0
15. Reserve December 31 of current year	1,154,273,959	310,999,881	0	0	0	843,274,078	0
Cash Surrender Value and Policy Loans							
16. CSV Ending balance December 31, current year	303,873,560	303,873,560					
17. Amount Available for Policy Loans Based upon Line 16 CSV	293,082,463	293,082,463					

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

EXHIBIT OF NET INVESTMENT INCOME

		1	2
		Collected During Year	Earned During Year
1.	U.S. Government bonds	(a) .....10,996,752	.....7,978,126
1.1	Bonds exempt from U.S. tax	(a)	
1.2	Other bonds (unaffiliated)	(a) .....1,892,726,520	.....1,973,564,285
1.3	Bonds of affiliates	(a) .....47,345,884	.....23,632,885
2.1	Preferred stocks (unaffiliated)	(b) .....16,229,050	.....17,409,422
2.11	Preferred stocks of affiliates	(b)	
2.2	Common stocks (unaffiliated) .....	.....10,625,610	.....10,938,777
2.21	Common stocks of affiliates		
3.	Mortgage loans	(c) .....282,052,351	.....284,128,806
4.	Real estate	(d)	
5	Contract loans .....	.....3,837,600	.....3,566,544
6	Cash, cash equivalents and short-term investments	(e) .....176,788,392	.....176,808,633
7	Derivative instruments	(f) .....(33,190,810)	.....420,162,040
8.	Other invested assets .....	.....120,176,932	.....120,176,932
9.	Aggregate write-ins for investment income .....	.....17,740,353	.....17,740,353
10.	Total gross investment income	2,545,328,634	3,056,106,803
11.	Investment expenses		(g) .....58,137,826
12.	Investment taxes, licenses and fees, excluding federal income taxes		(g) .....0
13.	Interest expense		(h) .....56,054,196
14.	Depreciation on real estate and other invested assets		(i)
15.	Aggregate write-ins for deductions from investment income .....		.....293,666,429
16.	Total deductions (Lines 11 through 15) .....		.....407,858,451
17.	Net investment income (Line 10 minus Line 16)		2,648,248,352
DETAILS OF WRITE-INS			
0901.	Miscellaneous .....	.....17,740,353	.....17,740,353
0902.	.....	
0903.	.....	
0998.	Summary of remaining write-ins for Line 9 from overflow page .....	.....0	.....0
0999.	Totals (Lines 0901 through 0903 plus 0998) (Line 9, above)	17,740,353	17,740,353
1501.	Ceded investment income .....		.....293,666,429
1502.	.....	
1503.	.....	
1598.	Summary of remaining write-ins for Line 15 from overflow page .....		.....0
1599.	Totals (Lines 1501 through 1503 plus 1598) (Line 15, above)		293,666,429

- (a) Includes \$168,861,494 accrual of discount less \$71,230,083 amortization of premium and less \$27,115,741 paid for accrued interest on purchases.
- (b) Includes \$0 accrual of discount less \$0 amortization of premium and less \$0 paid for accrued dividends on purchases.
- (c) Includes \$13,210,092 accrual of discount less \$23,054,144 amortization of premium and less \$ paid for accrued interest on purchases.
- (d) Includes \$ for company's occupancy of its own buildings; and excludes \$ interest on encumbrances.
- (e) Includes \$148,416,362 accrual of discount less \$0 amortization of premium and less \$120,491 paid for accrued interest on purchases.
- (f) Includes \$ accrual of discount less \$ amortization of premium.
- (g) Includes \$ investment expenses and \$ investment taxes, licenses and fees, excluding federal income taxes, attributable to segregated and Separate Accounts.
- (h) Includes \$ interest on surplus notes and \$ interest on capital notes.
- (i) Includes \$0 depreciation on real estate and \$ depreciation on other invested assets.

EXHIBIT OF CAPITAL GAINS (LOSSES)

		1	2	3	4	5
		Realized Gain (Loss) On Sales or Maturity	Other Realized Adjustments	Total Realized Capital Gain (Loss) (Columns 1 + 2)	Change in Unrealized Capital Gain (Loss)	Change in Unrealized Foreign Exchange Capital Gain (Loss)
1.	U.S. Government bonds .....	.....0	.....0	.....0	.....0	.....0
1.1	Bonds exempt from U.S. tax .....			.....0		
1.2	Other bonds (unaffiliated) .....	.....(146,944,630)	.....(66,205,000)	.....(213,149,629)	.....(4,454,532)	.....(54,174,688)
1.3	Bonds of affiliates .....	.....(10,247)	.....2,259,581	.....2,249,334	.....0	.....(6,218,023)
2.1	Preferred stocks (unaffiliated) .....	.....3,641,104	.....(13,593,117)	.....(9,952,013)	.....20,206,353	.....0
2.11	Preferred stocks of affiliates .....	.....0	.....0	.....0	.....0	.....0
2.2	Common stocks (unaffiliated) .....	.....35,236,283	.....(8,284,215)	.....26,952,067	.....27,937,621	.....(366)
2.21	Common stocks of affiliates .....	.....0	.....0	.....0	.....36,846,185	.....0
3.	Mortgage loans .....	.....(261,120)	.....72,501	.....(188,619)	.....0	.....756,479
4.	Real estate .....	.....0	.....0	.....0		.....0
5.	Contract loans .....			.....0		
6.	Cash, cash equivalents and short-term investments .....	.....(1,081,226)	.....2,035,364	.....954,138		
7.	Derivative instruments .....	.....107,925,457		.....107,925,457	.....428,418,892	.....448,310
8.	Other invested assets .....	.....1,193,005	.....(59,882,854)	.....(58,689,848)	.....(8,469,563)	.....(2,174,836)
9.	Aggregate write-ins for capital gains (losses) .....	.....0	.....(1,153,804)	.....(1,153,804)	.....(950,000)	.....0
10.	Total capital gains (losses) .....	.....(301,374)	.....(144,751,544)	.....(145,052,918)	499,534,955	.....(61,363,123)
DETAILS OF WRITE-INS						
0901.	Misc Income .....		.....(1,153,804)	.....(1,153,804)		
0902.	Misc change in unrealized .....			.....0	.....(950,000)	
0903.	.....				
0998.	Summary of remaining write-ins for Line 9 from overflow page .....	.....0	.....0	.....0	.....0	.....0
0999.	Totals (Lines 0901 through 0903 plus 0998) (Line 9, above)	0	(1,153,804)	(1,153,804)	(950,000)	0

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY
EXHIBIT - 1 PART 1 - PREMIUMS AND ANNUITY CONSIDERATIONS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

	1	2	3	4	5	6	7	8
	Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident & Health	Fraternal	Other Lines of Business
FIRST YEAR (other than single)								
1. Uncollected	0							
2. Deferred and accrued	0							
3. Deferred , accrued and uncollected:								
3.1 Direct	0							
3.2 Reinsurance assumed	0							
3.3 Reinsurance ceded	0							
3.4 Net (Line 1 + Line 2)	0	0	0	0	0	0	0	0
4. Advance	0							
5. Line 3.4 - Line 4	0	0	0	0	0	0	0	0
6. Collected during year:								
6.1 Direct	0							
6.2 Reinsurance assumed	0							
6.3 Reinsurance ceded	0							
6.4 Net	0	0	0	0	0	0	0	0
7. Line 5 + Line 6.4	0	0	0	0	0	0	0	0
8. Prior year (uncollected + deferred and accrued - advance)	0	0	0	0	0	0	0	0
9. First year premiums and considerations:								
9.1 Direct	0							
9.2 Reinsurance assumed	0							
9.3 Reinsurance ceded	0							
9.4 Net (Line 7 - Line 8)	0	0	0	0	0	0	0	0
SINGLE								
10. Single premiums and considerations:								
10.1 Direct	9,062,310,930			9,062,154,507	156,423			
10.2 Reinsurance assumed	0							
10.3 Reinsurance ceded	528,873,338			528,873,338				
10.4 Net	8,533,437,592	0	0	8,533,281,169	156,423	0	0	0
RENEWAL								
11. Uncollected	246,379	201,746				44,633		
12. Deferred and accrued	5,748,406	5,748,406						
13. Deferred, accrued and uncollected:								
13.1 Direct	5,309,366	5,277,523				31,843		
13.2 Reinsurance assumed	717,262	672,629				44,633		
13.3 Reinsurance ceded	31,843					31,843		
13.4 Net (Line 11 + Line 12)	5,994,785	5,950,152	0	0	0	44,633	0	0
14. Advance	158,663	145,533				13,130		
15. Line 13.4 - Line 14	5,836,122	5,804,619	0	0	0	31,503	0	0
16. Collected during year:								
16.1 Direct	32,010,536	19,639,739		3,199,754	4,752,781	4,418,262		
16.2 Reinsurance assumed	5,665,364	2,635,345		178,890		2,851,129		
16.3 Reinsurance ceded	18,489,737	9,381,815		1,808,775	2,880,885	4,418,262		
16.4 Net	19,186,163	12,893,269	0	1,569,869	1,871,896	2,851,129	0	0
17. Line 15 + Line 16.4	25,022,285	18,697,888	0	1,569,869	1,871,896	2,882,632	0	0
18. Prior year (uncollected + deferred and accrued - advance)	7,280,354	7,253,573	0	0	0	26,781	0	0
19. Renewal premiums and considerations:								
19.1 Direct	30,721,914	18,313,526		3,199,755	4,752,782	4,455,851		
19.2 Reinsurance assumed	5,547,347	2,512,606		178,890		2,855,851		
19.3 Reinsurance ceded	18,527,326	9,381,815		1,808,775	2,880,885	4,455,851		
19.4 Net (Line 17 - Line 18)	17,741,935	11,444,317	0	1,569,870	1,871,897	2,855,851	0	0
TOTAL								
20. Total premiums and annuity considerations:								
20.1 Direct	9,093,032,844	18,313,526	0	9,065,354,262	4,909,205	4,455,851	0	0
20.2 Reinsurance assumed	5,547,347	2,512,606	0	178,890	0	2,855,851	0	0
20.3 Reinsurance ceded	547,400,664	9,381,815	0	530,682,113	2,880,885	4,455,851	0	0
20.4 Net (Lines 9.4 + 10.4 + 19.4)	8,551,179,527	11,444,317	0	8,534,851,039	2,028,320	2,855,851	0	0

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT - 1 PART 2 - POLICYHOLDERS' DIVIDENDS, REFUNDS TO MEMBERS AND COUPONS APPLIED, REINSURANCE COMMISSIONS AND
EXPENSE ALLOWANCES AND COMMISSIONS INCURRED (Direct Business Only)

	1	2	3	4	5	6	7	8
	Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident & Health	Fraternal	Other Lines of Business
POLICYHOLDERS' DIVIDENDS, REFUNDS TO MEMBERS AND COUPONS APPLIED (included in Part 1)								
21. To pay renewal premiums	0							
22. All other	0							
REINSURANCE COMMISSIONS AND EXPENSE ALLOWANCES INCURRED								
23. First year (other than single):								
23.1 Reinsurance ceded	0							
23.2 Reinsurance assumed	0							
23.3 Net ceded less assumed	0	0	0	0	0	0	0	0
24. Single:								
24.1 Reinsurance ceded	32,706,594			32,706,594				
24.2 Reinsurance assumed	0							
24.3 Net ceded less assumed	32,706,594	0	0	32,706,594	0	0	0	0
25. Renewal:								
25.1 Reinsurance ceded	(81,835,948)	2,102,016		(85,133,891)	1,059,191	136,736		
25.2 Reinsurance assumed	509,759	(10,000)		3,690		516,069		
25.3 Net ceded less assumed	(82,345,707)	2,112,016	0	(85,137,581)	1,059,191	(379,333)	0	0
26. Totals:								
26.1 Reinsurance ceded (Page 6, Line 6)	(49,129,354)	2,102,016	0	(52,427,297)	1,059,191	136,736	0	0
26.2 Reinsurance assumed (Page 6, Line 22)	509,759	(10,000)	0	3,690	0	516,069	0	0
26.3 Net ceded less assumed	(49,639,113)	2,112,016	0	(52,430,987)	1,059,191	(379,333)	0	0
COMMISSIONS INCURRED (direct business only)								
27. First year (other than single)	(23)	(23)						
28. Single	462,479,636			462,474,990	4,646			
29. Renewal	1,077,446	342,514		260,572	337,624	136,736		
30. Deposit-type contract funds	328,813			328,813				
31. Totals (to agree with Page 6, Line 21)	463,885,872	342,491	0	463,064,375	342,270	136,736	0	0

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT 2 - GENERAL EXPENSES

	Insurance				5	6	7
	1	Accident and Health		4			
		2	3				
	Life	Cost Containment	All Other	All Other Lines of Business	Investment	Fraternal	Total
1. Rent	1,811,921						1,811,921
2. Salaries and wages	89,645,382						89,645,382
3.11 Contributions for benefit plans for employees	14,778,624						14,778,624
3.12 Contributions for benefit plans for agents							0
3.21 Payments to employees under non-funded benefit plans							0
3.22 Payments to agents under non-funded benefit plans							0
3.31 Other employee welfare	4,232,860						4,232,860
3.32 Other agent welfare	875,321						875,321
4.1 Legal fees and expenses	3,964,391						3,964,391
4.2 Medical examination fees	1,069						1,069
4.3 Inspection report fees							0
4.4 Fees of public accountants and consulting actuaries	7,920,108						7,920,108
4.5 Expense of investigation and settlement of policy claims	211,750						211,750
5.1 Traveling expenses	3,050,677						3,050,677
5.2 Advertising	584,478						584,478
5.3 Postage, express, telegraph and telephone	3,228,518						3,228,518
5.4 Printing and stationery	1,320,243						1,320,243
5.5 Cost or depreciation of furniture and equipment ...	933,469						933,469
5.6 Rental of equipment	231,237						231,237
5.7 Cost or depreciation of EDP equipment and software	354,115						354,115
6.1 Books and periodicals	113,978						113,978
6.2 Bureau and association fees	4,989,011						4,989,011
6.3 Insurance, except on real estate	253,961						253,961
6.4 Miscellaneous losses	209,993						209,993
6.5 Collection and bank service charges	432,776						432,776
6.6 Sundry general expenses	7,895,486						7,895,486
6.7 Group service and administration fees	3,970,142						3,970,142
6.8 Reimbursements by uninsured plans							0
7.1 Agency expense allowance	1,748,517						1,748,517
7.2 Agents' balances charged off (less \$ recovered)							0
7.3 Agency conferences other than local meetings	1,984,164						1,984,164
8.1 Official publication (Fraternal Benefit Societies Only)	XXX	XXX	XXX	XXX	XXX		0
8.2 Expense of supreme lodge meetings (Fraternal Benefit Societies Only)	XXX	XXX	XXX	XXX	XXX		0
9.1 Real estate expenses							0
9.2 Investment expenses not included elsewhere	2,380,635				58,137,826		60,518,461
9.3 Aggregate write-ins for expenses	14,401,263	0	0	0	0	0	14,401,263
10. General expenses incurred	171,524,089	0	0	0	58,137,826	(b) 0	(a) 229,661,915
11. General expenses unpaid Dec. 31, prior year	56,305,815						56,305,815
12. General expenses unpaid Dec. 31, current year ...	62,464,494						62,464,494
13. Amounts receivable relating to uninsured plans, prior year							0
14. Amounts receivable relating to uninsured plans, current year							0
15. General expenses paid during year (Lines 10+11-12-13+14)	165,365,410	0	0	0	58,137,826	0	223,503,236
DETAILS OF WRITE-INS							
09.301. PC & EDP Expenses	14,401,263						14,401,263
09.302.							
09.303.							
09.398. Summary of remaining write-ins for Line 9.3 from overflow page.....	0	0	0	0	0	0	0
09.399. Totals (Lines 09.301 through 09.303 plus 09.398) (Line 9.3 above)	14,401,263	0	0	0	0	0	14,401,263

(a) Includes management fees of \$ to affiliates and \$ to non-affiliates.
(b) Show the distribution of this amount in the following categories (Fraternal Benefit Societies Only):
1. Charitable\$; 2. Institutional . \$; 3. Recreational and Health \$; 4. Educational\$
5. Religious\$; 6. Membership \$; 7. Other\$; 8. Total\$0

EXHIBIT 3 - TAXES, LICENSES AND FEES (EXCLUDING FEDERAL INCOME TAXES)

	Insurance			4 Investment	5 Fraternal	6 Total
	1 Life	2 Accident and Health	3 All Other Lines of Business			
1. Real estate taxes						0
2. State insurance department licenses and fees	32,955,166					32,955,166
3. State taxes on premiums	2,159,099					2,159,099
4. Other state taxes, including \$ for employee benefits	6,053,310					6,053,310
5. U.S. Social Security taxes	5,280,470					5,280,470
6. All other taxes	192,105					192,105
7. Taxes, licenses and fees incurred	46,640,150	0	0	0	0	46,640,150
8. Taxes, licenses and fees unpaid Dec. 31, prior year	(667,577)					(667,577)
9. Taxes, licenses and fees unpaid Dec. 31, current year.....	443,234					443,234
10. Taxes, licenses and fees paid during year (Lines 7 + 8 - 9)	45,529,339	0	0	0	0	45,529,339

EXHIBIT 4 - DIVIDENDS OR REFUNDS

	1 Life	2 Accident and Health
1. Applied to pay renewal premiums		
2. Applied to shorten the endowment or premium-paying period		
3. Applied to provide paid-up additions		
4. Applied to provide paid-up annuities		
5. Total Lines 1 through 4	0	0
6. Paid in cash		
7. Left on deposit	10,851	
8. Aggregate write-ins for dividend or refund options	0	0
9. Total Lines 5 through 8	10,851	0
10. Amount due and unpaid		
11. Provision for dividends or refunds payable in the following calendar year		
12. Terminal dividends		
13. Provision for deferred dividend contracts		
14. Amount provisionally held for deferred dividend contracts not included in Line 13		
15. Total Lines 10 through 14	0	0
16. Total from prior year	0	0
17. Total dividends or refunds (Lines 9 + 15 - 16)	10,851	0
DETAILS OF WRITE-INS		
0801.		
0802.		
0803.		
0898. Summary of remaining write-ins for Line 8 from overflow page	0	0
0899. Totals (Lines 0801 through 0803 plus 0898) (Line 8 above)	0	0

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5	6
Valuation Standard	Total ^(a)	Industrial	Ordinary	Credit (Group and Individual)	Group
0100001. AM(5) 3.00% 1948-1952	7,439		7,439		
0100002. 41 CET - NL 3.00% 1952-1962	5,514		5,514		
0100003. 41 CSO - NL 2.50% 1952-1962	6,389		6,389		
0100004. 41 CSO - CRVM 2.50% 1952-1962	979		979		
0100005. 41 CSO - CRVM 2.75% 1952-1962	27,253		27,253		
0100006. 41 CSO - NL 3.00% 1952-1962	2,565,858		2,565,858		
0100007. 41 CSO - CRVM 3.00% 1952-1962	221,358		221,358		
0100008. 58 CSO - NL 2.00% 1963-1974	0				
0100009. 58 CSO - NL 2.50% 1961-1984	228,651		228,651		
0100010. 58 CSO - NL 3.00% 1961-1988	3,717,503		3,717,503		
0100011. 58 CSO - CRVM 3.00% 1961-1988	19,628,452		19,628,452		
0100012. 58 CET - NL 2.50% 1963-1983	84,265		84,265		
0100013. 58 CET - NL 3.00% 1962-2000	465,496		465,496		
0100014. 58 CSO - CRVM 3.50% 1963-1981	6,494,382		6,494,382		
0100015. 58 CSO - NL 3.50% 1963-1988	601,642		601,642		
0100016. 58 CET - NL 3.50% 1963-1988	1,575,992		1,575,992		
0100017. 58 CSO - CRVM to NL 3.50% to 3.00% 1969-1981					
	39,847		39,847		
0100018. 58 CSO - CRVM to NL 3.50% 1969-1988	1,128,748		1,128,748		
0100019. 58 CSO - NL 4.00% 1974-1988	42,714		42,714		
0100020. 58 CSO - NL 3.25% 1978-1988	33,538		196		33,342
0100021. 58 CSO - CRVM 4.00% 1975-1988	3,538,308		3,538,308		
0100022. 58 CET - NL 4.00% 1980-1988	30,703		30,703		
0100023. 58 CET - NL 4.50% 1980-1982	62,112		62,112		
0100024. 58 CSO - NL 4.50% 1980-1988	721,392		721,392		
0100025. 58 CSO - CRVM 4.50% 1980-1996	17,758,941		17,758,941		
0100026. 58 CSO - CRVM 4.50% to 3.50% 1980-1982	1,964,784		1,964,784		
0100027. 58 CSO - CRVM 5.50% 1983-1985	4,495		4,495		
0100028. 80 CSO - CRVM 5.00% 1987-1994	2,960,848		2,960,848		
0100029. 80 CSO - CRVM 5.25% 1988-1992	11,090,989		11,090,989		
0100030. 80 CSO - CRVM 5.50% 1988-1992	5,405,376		5,405,376		
0100031. 80 CSO - CRVM 6.00% 1983-1986	1,515,814		1,515,814		
0100032. 80 CSO - NL 6.00% 1983-1994	757,897		757,897		
0100033. 80 CSO - NL 3.50% 1983-1995	250		250		
0100034. 80 CSO - CRVM 3.50% 1983-1995	187,199		187,199		
0100035. 80 CSO - NL 4.50% 1989-90, 1995-98	170,841		170,841		
0100036. 80 CSO - NL 5.00% 1993-1994	573,708		573,708		
0100037. 80 CSO - NL 5.50% 1988-1989	211,170		211,170		
0100038. 80 CET - NL 5.00% 1993-1994	18,141		18,141		
0100039. 80 CET - NL 3.50% 1983-1985	1,900		1,900		
0100040. 80 CET - NL 5.50% 1988-1992	31,296		31,296		
0100041. 80 CET - NL 6.00% 1983-1986	4,667		4,667		
0100042. 80 CET - NL 4.50% 1987-2006	89,465		89,465		
0100043. EXTENDED DEATH BENEFIT - GROUP	1,986				1,986
0100044. 80 CSO - NL 4.00% 1994-2004	25,193		25,193		
0100045. 80 CSO - CRVM 4.00% 1983-2008	87,175,239		87,175,239		
0100046. 80 CSO - CRVM 4.50% 1989-2005	101,133,925		101,133,925		
0100047. 80 CSO - CRVM 5.75% 1996-2003	11,590		11,590		
0100048. 01 CSO - CRVM 3.5%, 4% 2009-2019	4,094,137		4,094,137		
0100049. 17 CSO - CRVM 3.50% 2020	202,000		202,000		
0100050. 17 CSO - CRVM 3.00% 2021-2024	365,063		365,063		
0100051. Annuity 2000 - NL 5.00% 2004	1,295,658		1,295,658		
0100052. Annuity 2000 - NL 5.50% 2003	6,668,478		6,668,478		
0100053. Annuity 2000 - NL 6.00% 2002	20,405,395		20,405,395		
0100054. 80 CSO - CRVM 4.50% 1996-2000	5,626,537		2,640,043		2,986,494
0100055. 80 CSO - NL 4.50% 1996-2000	9,662,747		4,903,093		4,759,654
0100056. 01 CSO - CRVM 4.00% 2006-2012	1,870,072		1,870,072		
0100057. 01 CSO - NL 4.00% 2006-2012	2,814		2,814		
0100058. 01 CSO - CRVM 4.50% 2006-2010	1,780,650		1,780,650		
0100059. 01 CSO - NL 4.50% 2006-2009	3,560		3,560		
0199997. Totals (Gross)	324,301,360	0	316,519,884	0	7,781,476
0199998. Reinsurance ceded	202,392,537		195,421,003		6,971,534
0199999. Life Insurance: Totals (Net)	121,908,823	0	121,098,881	0	809,942
0200001. 71 IAM 6.00% 1975-1982 (1mm)	212,315	XXX	212,315	XXX	
0200002. 71 IAM 11.25% 1983-1984 (1mm)	1,123,736	XXX	118,043	XXX	1,005,693
0200003. 71 IAM 11.00% 1985 (1mm)	11,998,879	XXX	82,693	XXX	11,916,186
0200004. 83 IAM 9.25% 1986 (1mm)	149,017	XXX	149,017	XXX	
0200005. 83 IAM 8.00% 1987 (1mm)	233,539	XXX	233,539	XXX	
0200006. 83 IAM 8.75% 1988-1989 (1mm)	387,807	XXX	387,807	XXX	
0200007. 83 IAM 8.25% 1990-1991 (1mm)	933,494	XXX	933,494	XXX	
0200008. 83 IAM 7.75% 1992 (1mm)	682,855	XXX	682,855	XXX	
0200009. 83 IAM 7.00% 1993 (1mm)	878,503	XXX	878,503	XXX	
0200010. 83 IAM 6.50% 1994 (1mm)	803,988	XXX	803,988	XXX	
0200011. 83 IAM 7.25% 1995 (1mm)	927,516	XXX	927,516	XXX	
0200012. 83 IAM 6.75% 1996-1997 (1mm)	2,269,950	XXX	2,269,950	XXX	
0200013. 83 IAM 6.25% 1998-1999 (1mm)	1,511,192	XXX	1,511,192	XXX	
0200014. Annuity 2000 6.25% 1999 (1mm)	1,504,290	XXX	1,504,290	XXX	
0200015. Annuity 2000 7.00% 2000 (1mm)	1,548,344	XXX	1,548,344	XXX	
0200016. Annuity 2000 6.75% 2001 (1mm)	1,842,762	XXX	1,842,762	XXX	
0200017. Annuity 2000 6.50% 2002 (1mm)	2,774,085	XXX	2,774,085	XXX	
0200018. Annuity 2000 6.00% 2003 (1mm)	1,939,974	XXX	1,939,974	XXX	
0200019. Annuity 2000 5.50% 2004 (1mm)	1,550,212	XXX	1,550,212	XXX	
0200020. Annuity 2000 5.25% 2005 (1mm)	3,072,651	XXX	3,072,651	XXX	
0200021. Annuity 2000 5.25% 2006 (1mm)	3,845,912	XXX	3,845,912	XXX	
0200022. Annuity 2000 5.50% 2007-2008 (1mm)	5,868,773	XXX	5,868,773	XXX	
0200023. Annuity 2000 6.00% 2009 (1mm)	2,783,506	XXX	2,783,506	XXX	
0200024. Annuity 2000 5.25% 2010 (1mm)	3,348,279	XXX	3,348,279	XXX	
0200025. Annuity 2000 5.00% 2011 (1mm)	3,164,375	XXX	3,164,375	XXX	
0200026. Annuity 2000 4.25% 2012 (1mm)	4,028,145	XXX	4,028,145	XXX	
0200027. Annuity 2000 4.00% 2013 (1mm)	3,482,000	XXX	3,482,000	XXX	
0200028. Annuity 2000 4.50% 2014 (1mm)	5,214,538	XXX	5,214,538	XXX	
0200029. Annuity 2000 4.00% 2015 (1mm)	5,971,865	XXX	5,971,865	XXX	

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5	6
Valuation Standard	Total ^(a)	Industrial	Ordinary	Credit (Group and Individual)	Group
0200030. 2012 IAR 4.00% 2016 (Imm)	9,510,397	XXX	9,510,397	XXX	
0200031. 2012 IAR 3.75% 2017 (Imm)	10,599,685	XXX	10,599,685	XXX	
0200032. 2012 IAR 3.75% 2018 (Imm)	8,857,275	XXX	8,857,275	XXX	
0200033. 2012 IAR 4.00% 2019 (Imm)	7,786,309	XXX	7,786,309	XXX	
0200034. 2012 IAR 3.25% 2020 (Imm)	9,825,740	XXX	9,825,740	XXX	
0200035. 2012 IAR 3.00% 2021 (Imm)	9,798,072	XXX	9,798,072	XXX	
0200036. 2012 IAR 3.50% 2022 (Imm)	11,923,845	XXX	11,923,845	XXX	
0200037. 2012 IAR 4.75% 2023 (Imm)	15,096,373	XXX	15,096,373	XXX	
0200038. 2012 IAR 5.00% 2024 (Imm)	20,119,605	XXX	20,119,605	XXX	
0200039. 2012 IAR VM22 Non Jumbo 2.75 – 3.24 2018 (Imm)	4,151,354	XXX	4,151,354	XXX	
0200040. 2012 IAR VM22 Non Jumbo 3.25 – 3.74 2018 (Imm)	4,954,403	XXX	4,954,403	XXX	
0200041. 2012 IAR VM22 Non Jumbo 3.75 – 4.24 2018 (Imm)	1,239,670	XXX	1,239,670	XXX	
0200042. 2012 IAR VM22 Non Jumbo 2.25 – 2.74 2019 (Imm)	674,541	XXX	674,541	XXX	
0200043. 2012 IAR VM22 Non Jumbo 2.75 – 3.24 2019 (Imm)	2,567,157	XXX	2,567,157	XXX	
0200044. 2012 IAR VM22 Non Jumbo 3.25 – 3.74 2019 (Imm)	852,179	XXX	852,179	XXX	
0200045. 2012 IAR VM22 Non Jumbo 3.75 – 4.24 2019 (Imm)	6,167,636	XXX	6,167,636	XXX	
0200046. 2012 IAR VM22 Non Jumbo 4.25 – 4.74 2019 (Imm)	379,397	XXX	379,397	XXX	
0200047. 2012 IAR VM22 Non Jumbo 1.00 – 1.74 2020 (Imm)	4,821,589	XXX	4,821,589	XXX	
0200048. 2012 IAR VM22 Non Jumbo 2.25 – 2.74 2020 (Imm)	10,534,828	XXX	10,534,828	XXX	
0200049. 2012 IAR VM22 Non Jumbo 2.75 – 3.24 2020 (Imm)	56,093	XXX	56,093	XXX	
0200050. 2012 IAR VM22 Non Jumbo 3.25 – 3.74 2020 (Imm)	1	XXX	1	XXX	
0200051. 2012 IAR VM22 Non Jumbo 1.00 – 1.74 2021 (Imm)	10,765,141	XXX	10,765,141	XXX	
0200052. 2012 IAR VM22 Non Jumbo 2.25 – 2.74 2021 (Imm)	8,965,074	XXX	8,965,074	XXX	
0200053. 2012 IAR VM22 Non Jumbo 2.75 – 3.24 2021 (Imm)	448,635	XXX	448,635	XXX	
0200054. 2012 IAR VM22 Non Jumbo 1.00 – 1.74 2022 (Imm)	3,076,005	XXX	3,076,005	XXX	
0200055. 2012 IAR VM22 Non Jumbo 2.25 – 2.74 2022 (Imm)	10,731,065	XXX	10,731,065	XXX	
0200056. 2012 IAR VM22 Non Jumbo 2.75 – 3.24 2022 (Imm)	479,690	XXX	479,690	XXX	
0200057. 2012 IAR VM22 Non Jumbo 3.25 – 3.74 2022 (Imm)	2,957,981	XXX	2,957,981	XXX	
0200058. 2012 IAR VM22 Non Jumbo 3.75 – 4.24 2022 (Imm)	16,162,067	XXX	16,162,067	XXX	
0200059. 2012 IAR VM22 Non Jumbo 4.25 – 4.74 2022 (Imm)	12,010,470	XXX	12,010,470	XXX	
0200060. 2012 IAR VM22 Non Jumbo 4.25 – 4.74 2023 (Imm)	17,319,654	XXX	17,319,654	XXX	
0200061. 2012 IAR VM22 Non Jumbo 4.75 – 5.24 2023 (Imm)	17,895,093	XXX	17,895,093	XXX	
0200062. 2012 IAR VM22 Non Jumbo 4.25 – 4.74 2024 (Imm)	10,563,532	XXX	10,563,532	XXX	
0200063. 2012 IAR VM22 Non Jumbo 4.75 – 5.24 2024 (Imm)	10,556,322	XXX	10,556,322	XXX	
0200064. 2012 IAR VM22 Non Jumbo 5.25 – 5.74 2024 (Imm)	3,444,220	XXX	3,444,220	XXX	
0200065. 94 GAR 3.75% 2017 (Imm)	3,433,028	XXX		XXX	3,433,028
0200066. 94 GAR VM22 Non Jumbo 0.75 – 1.24 2018–2021 (Imm)	1,051,545	XXX		XXX	1,051,545
0200067. 94 GAR VM22 Non Jumbo 1.25 – 1.74 2018–2021 (Imm)	16,326,647	XXX		XXX	16,326,647
0200068. 94 GAR VM22 Non Jumbo 1.75 – 2.24 2018–2021 (Imm)	115,101,788	XXX		XXX	115,101,788
0200069. 94 GAR VM22 Non Jumbo 2.25 – 2.74 2018–2021 (Imm)	250,439,372	XXX		XXX	250,439,372
0200070. 94 GAR VM22 Non Jumbo 2.75 – 3.24 2018–2021 (Imm)	283,411,206	XXX		XXX	283,411,206
0200071. 94 GAR VM22 Non Jumbo 3.25 – 3.74 2018–2021 (Imm)	35,232,081	XXX		XXX	35,232,081
0200072. 94 GAR VM22 Non Jumbo 3.75 – 4.24 2018–2021 (Imm)	128,353,888	XXX		XXX	128,353,888
0200073. 94 GAR VM22 Non Jumbo 4.25 – 4.74 2018–2021 (Imm)	4,862,554	XXX		XXX	4,862,554
0200074. 71 IAM 3.75 – 4.00% 1971–1978 (Def)	23,792,824	XXX	23,792,824	XXX	
0200075. 71 IAM 4.25 – 4.50% 1979–1982 (Def)	154,154,345	XXX	151,979,790	XXX	2,174,555
0200076. 71 IAM 8.50 – 8.75% 1983 (Def)	44,420,455	XXX	43,671,307	XXX	749,148
0200077. 71 IAM 8.25 – 8.50% 1984–1985 (Def)	144,648,699	XXX	143,271,005	XXX	1,377,694
0200078. 83 IAM 7.00 – 7.25% 1986 (Def)	116,551,397	XXX	115,429,285	XXX	1,122,112
0200079. 83 IAM 6.25 – 6.50% 1987 (Def)	126,093,991	XXX	110,059,020	XXX	16,034,971
0200080. 83 IAM 6.75 – 7.00% 1988–1989 (Def)	262,032,840	XXX	257,480,200	XXX	4,552,640
0200081. 83 IAM 6.25 – 6.50% 1990 (Def)	165,781,463	XXX	155,702,292	XXX	10,079,171
0200082. 83 IAM 6.50 – 6.75% 1991 (Def)	150,261,568	XXX	135,671,432	XXX	14,590,136
0200083. 83 IAM 6.00 – 6.25% 1992 (Def)	112,017,877	XXX	88,938,853	XXX	23,079,024
0200084. 83 IAM 5.50 – 5.75% 1993 (Def)	116,856,369	XXX	66,708,568	XXX	50,147,801
0200085. 83 IAM 5.25 – 5.50% 1994 (Def)	103,151,499	XXX	49,409,897	XXX	53,741,602
0200086. 83 IAM 6.00 – 6.25% 1995 (Def)	113,952,434	XXX	46,265,142	XXX	67,687,292
0200087. 83 IAM 5.25 – 5.50% 1996–1997 (Def)	229,464,993	XXX	81,018,257	XXX	148,446,736

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5	6
Valuation Standard	Total ^(a)	Industrial	Ordinary	Credit (Group and Individual)	Group
0200088. 83 IAM 5.00 – 5.25% 1998 (Def)	97,438,507	XXX	37,551,992	XXX	59,886,515
0200089. Deferred 3.25 – 3.50% 1989–1998 (Def)	14,752	XXX	14,752	XXX	
0200090. Deferred 4.25 – 4.50% 1989–1998 (Def)	2,477,025	XXX	2,477,025	XXX	
0200091. Deferred 5.25 – 5.50% 1989–1998 (Def)	633,573	XXX	633,573	XXX	
0200092. Annuity 2000, 1994 GAR 5.50 – 5.25% 1999 (Def)	83,825,850	XXX	31,649,527	XXX	52,176,323
0200093. Annuity 2000, 1994 GAR 5.50 – 5.75% 2000 (Def)	77,889,319	XXX	29,424,988	XXX	48,464,331
0200094. Annuity 2000, 1994 GAR 5.25 – 5.50% 2001–2002 (Def)	245,737,292	XXX	109,499,410	XXX	136,237,882
0200095. Annuity 2000, 1994 GAR 4.75 – 5.00% 2003 (Def)	79,807,722	XXX	42,185,701	XXX	37,622,021
0200096. Annuity 2000, 1994 GAR 4.50 – 4.75% 2004 (Def)	49,575,820	XXX	38,526,713	XXX	11,049,107
0200097. Annuity 2000, 1994 GAR 4.25 – 4.50% 2005–2006 (Def)	116,986,694	XXX	104,848,616	XXX	12,138,078
0200098. Annuity 2000, 1994 GAR 4.50 – 4.75% 2007–2008 (Def)	320,986,538	XXX	316,497,733	XXX	4,488,805
0200099. Annuity 2000, 1994 GAR 5.00% 2009 (Def)	119,718,908	XXX	118,282,074	XXX	1,436,834
0200100. Annuity 2000, 1994 GAR 4.50% 2010 (Def)	207,012,904	XXX	207,012,904	XXX	
0200101. Annuity 2000, 1994 GAR 4.25% 2011 (Def)	460,278,306	XXX	459,970,473	XXX	307,833
0200102. Annuity 2000, 1994 GAR 3.75% 2012–2013 (Def)	1,594,961,943	XXX	1,594,551,075	XXX	410,868
0200103. Annuity 2000, 1994 GAR 4.00% 2014 (Def)	806,157,386	XXX	806,156,962	XXX	424
0200104. Annuity 2000, 1994 GAR 3.75% 2015 (Def)	1,200,581,180	XXX	1,200,245,354	XXX	335,826
0200105. 2012 IAR 3.50 – 3.75% 2016 (Def)	1,219,959,536	XXX	1,219,959,536	XXX	
0200106. 2012 IAR 3.25 – 3.50% 2017–2018 (Def)	4,320,904,408	XXX	4,320,904,408	XXX	
0200107. 2012 IAR 3.50 – 3.75% 2019 (Def)	2,587,665,303	XXX	2,587,665,303	XXX	
0200108. 2012 IAR 3.50 – 3.75% 2020 (Def)	2,799,816,028	XXX	2,799,816,028	XXX	
0200109. 2012 IAR 2.75 – 3.00% 2021 (Def)	4,759,442,122	XXX	4,759,442,122	XXX	
0200110. 2012 IAR 3.00 – 3.25% 2022 (Def)	7,193,291,021	XXX	7,193,291,021	XXX	
0200111. 2012 IAR 4.00 – 4.25% 2023 (Def)	8,493,475,452	XXX	8,493,475,452	XXX	
0200112. 2012 IAR 4.25 – 4.50% 2024 (Def)	8,369,930,429	XXX	8,369,930,429	XXX	
0299997. Totals (Gross)	48,249,304,481	XXX	46,639,832,764	XXX	1,609,471,717
0299998. Reinsurance ceded	12,038,407,535	XXX	11,583,209,781	XXX	455,197,754
0299999. Annuities: Totals (Net)	36,210,896,946	XXX	35,056,622,983	XXX	1,154,273,963
0300001. 71 IAM 6.00% 1971–1973	194		194		
0300002. 71 IAM 11.25% 1983–1984	0				
0300003. 71 IAM 11.00% 1985	0				
0300004. 71 IAM 7.50%	0				
0300005. 83 IAM 9.25% 1986	6,535		6,535		
0300006. 83 IAM 8.00% 1987	0				
0300007. 83 IAM 3.75% 2017	38,699		38,699		
0300008. 83 IAM 4.00% 2013–2019	91,063		91,063		
0300009. 83 IAM 5.25% 2005	0				
0300010. 83 IAM 5.50% 1986–2008	0				
0300011. 83 IAM 6.00% 1989–2009	22,628		22,628		
0300012. 83 IAM 6.25% 1989–2008	32,119		32,119		
0300013. 83 IAM 6.50% 1989–2008	8,672		8,672		
0300014. 83 IAM 6.75% 1989–2008	13,332		13,332		
0300015. 83 IAM 8.75% 1988–1989	17,445		17,445		
0300016. 83 IAM 7.00% 1992–1993	324		324		
0300017. 83 IAM 7.25% 1995	0				
0300018. 83 IAM 7.75% 1992	3,160		3,160		
0300019. 83 IAM 8.00% 1987	0				
0300020. 83 IAM 8.25% 1990–1991	0				
0300021. 83 IAM 8.50% 1986–2008	0				
0300022. 83 IAM 8.75% 1988–1989	9,667		9,667		
0300023. Annuity 2000 7.00% 2000	7,957		7,957		
0300024. Annuity 2000 5.25% 2005, 2010	47,421		47,421		
0300025. Annuity 2000 5.25% 2006	117,709		117,709		
0300026. Annuity 2000 5.50% 2007	0				
0300027. Annuity 2000 4.25% 2012	52,928		52,928		
0300028. Annuity 2000 4.50% 2015	0				
0300029. Annuity 2000 3.75% 2018	0				
0300030. Annuity 2000 3.00% 2021	183,761		183,761		
0399997. Totals (Gross)	653,614	0	653,614	0	0
0399998. Reinsurance ceded	0				
0399999. SCWLC: Totals (Net)	653,614	0	653,614	0	0
0400001. 59 ADB WITH 58 CSO 3.00%	34,842		34,842		
0400002. RESERVE FOR ADDITIONAL ADB	14		14		
0400003. 59 ADB WITH 80 CSO 4.00%	28,109		28,109		
0499997. Totals (Gross)	62,965	0	62,965	0	0
0499998. Reinsurance ceded	29,664		29,664		
0499999. Accidental Death Benefits: Totals (Net)	33,301	0	33,301	0	0
0500001. 52 INTERCO DISA, PER 2 BEN 4 & 5 W/ 58 CSO 3.00%	6,884		6,884		
0500002. 52 INTERCO DISA, PER 2 BEN 4 & 5 W/ 80 CSO 4.00%	15,625		15,625		
0500003. UNEARNED PREMIUM PAYOR	2,100		2,100		
0500004. 85 CIDA 4.50%	26,067		26,067		
0599997. Totals (Gross)	50,676	0	50,676	0	0
0599998. Reinsurance ceded	34,469		34,469		
0599999. Disability-Active Lives: Totals (Net)	16,207	0	16,207	0	0
0600001. 52 INTERCO DISA, PER 2 BEN 4 & 5 3.00%	4,069,182		4,069,182		
0600002. 1964 CDT 3.00%	2,547		2,547		
0600003. 85 CDT 4.50%	0				
0600004. 70 GROUP DIS 3.50%	0				
0600005. INCURRED BUT NOT REPORTED	0				
0699997. Totals (Gross)	4,071,729	0	4,071,729	0	0
0699998. Reinsurance ceded	2,704,880		2,704,880		

EXHIBIT 5 - AGGREGATE RESERVE FOR LIFE CONTRACTS

1	2	3	4	5	6
Valuation Standard	Total ^(a)	Industrial	Ordinary	Credit (Group and Individual)	Group
0699999. Disability-Disabled Lives: Totals (Net)	1,366,849	0	1,366,849	0	0
0700001. EXCESS OF NET PREMIUMS OVER GROSS	1,563,475		1,563,475		
0700002. NON DEDUCTION OF DEF. FRAC. PREMIUMS	671,500		668,141		3,359
0700003. GUARANTEED INSURABILITY RIDERS	44,127		44,127		
0700004. SUBSTANDARD POLICIES	43,691		43,691		
0700005. UNEARNED PREMIUMS - GROUP	3,569				3,569
0700006. IMMEDIATE PAYMENT OF CLAIMS	2,836,879		2,836,793		86
0700007. ASSET ADEQUACY RESERVE	150,000,000		150,000,000		
0799997. Totals (Gross)	155,163,241	0	155,156,227	0	7,014
0799998. Reinsurance ceded	1,651,203		1,651,203		
0799999. Miscellaneous Reserves: Totals (Net)	153,512,038	0	153,505,024	0	7,014
9999999. Totals (Net) - Page 3, Line 1	36,488,387,778	0	35,333,296,859	0	1,155,090,919

(a) Included in the above table are amounts of deposit-type contracts that originally contained a mortality risk. Amounts of deposit-type contracts in Column 2 that no longer contain a mortality risk are Life Insurance \$; Annuities \$ 5,714,040 ; Supplementary Contracts with Life Contingencies \$; Accidental Death Benefits \$; Disability - Active Lives \$; Disability - Disabled Lives \$; Miscellaneous Reserves \$

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT 5 - INTERROGATORIES

- 1.1

Has the reporting entity ever issued both participating and non-participating contracts?.....

Yes [] No [X]
- 1.2

If not, state which kind is issued.
Non-Participating
- 2.1

Does the reporting entity at present issue both participating and non-participating contracts?.....

Yes [] No [X]
- 2.2

If not, state which kind is issued.
Non-Participating
3.

Does the reporting entity at present issue or have in force contracts that contain non-guaranteed elements?.....

Yes [X] No []
4.

Has the reporting entity any assessment or stipulated premium contracts in force?
If so, state:
4.1 Amount of insurance?\$
4.2 Amount of reserve?\$
4.3 Basis of reserve:
4.4 Basis of regular assessments:
4.5 Basis of special assessments:
4.6 Assessments collected during the year\$
5.

If the contract loan interest rate guaranteed in any one or more of its currently issued contracts is less than 5%, not in advance, state the contract loan rate guarantees on any such contracts.
.....
6.

Does the reporting entity hold reserves for any annuity contracts that are less than the reserves that would be held on a standard basis?

Yes [] No [X]
- 6.1

If so, state the amount of reserve on such contracts on the basis actually held:.....

\$
- 6.2

That would have been held (on an exact or approximate basis) using the actual ages of the annuitants; the interest rate(s) used in 6.1; and the same mortality basis used by the reporting entity for the valuation of comparable annuity benefits issued to standard lives. If the reporting entity has no comparable annuity benefits for standard lives to be valued, the mortality basis shall be the table most recently approved by the state of domicile for valuing individual annuity benefits:

\$
- Attach statement of methods employed in their valuation.
7.

Does the reporting entity have any Synthetic GIC contracts or agreements in effect as of December 31 of the current year?

Yes [] No [X]
- 7.1

If yes, state the total dollar amount of assets covered by these contracts or agreements

\$
- 7.2

Specify the basis (fair value, amortized cost, etc.) for determining the amount:
- 7.3

State the amount of reserves established for this business:

\$
- 7.4

Identify where the reserves are reported in the blank:
8.

Does the reporting entity have any Contingent Deferred Annuity contracts or agreements in effect as of December 31 of the current year?

Yes [] No [X]
- 8.1

If yes, state the total dollar amount of account value covered by these contracts or agreements:

\$
- 8.2

State the amount of reserves established for this business:

\$
- 8.3

Identify where the reserves are reported in the blank:
9.

Does the reporting entity have any Guaranteed Lifetime Income Benefit contracts, agreements or riders in effect as of December 31 of the current year?

Yes [X] No []
- 9.1

If yes, state the total dollar amount of any account value associated with these contracts, agreements or riders:

\$3,932,949,895
- 9.2

State the amount of reserves established for this business:

\$4,459,704,658
- 9.3

Identify where the reserves are reported in the blank:
The reserves for the Guaranteed Lifetime Income Benefit are included in the deferred annuity reserves shown in the Annuities section of Exhibit 5.

EXHIBIT 5A - CHANGES IN BASES OF VALUATION DURING THE YEAR

1 Description of Valuation Class	Valuation Basis		4 Increase in Actuarial Reserve Due to Change
	2 Changed From	3 Changed To	
9999999 - Total (Column 4, only)			

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT 6 - AGGREGATE RESERVES FOR ACCIDENT AND HEALTH CONTRACTS ^(a)

	1	Comprehensive		4	5	6	7	8	9	10	11	12	13
		2	3										
	Total	Individual	Group	Medicare Supplement	Vision Only	Dental Only	Federal Employees Health Benefits Plan	Title XVIII Medicare	Title XIX Medicaid	Credit A&H	Disability Income	Long-Term Care	Other Health
ACTIVE LIFE RESERVE													
1. Unearned premium reserves	1,545,966			78,885							567	1,465,881	633
2. Additional contract reserves (b)	86,003,356			1,055,933							1,137	84,930,610	15,676
3. Additional actuarial reserves-Asset/Liability analysis	602,595										0	602,595	0
4. Reserve for future contingent benefits	0												
5. Reserve for rate credits	0												
6. Aggregate write-ins for reserves	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Totals (Gross)	88,151,917	0	0	1,134,818	0	0	0	0	0	0	1,704	86,999,086	16,309
8. Reinsurance ceded	48,708,367			1,134,818							1,704	47,555,536	16,309
9. Totals (Net)	39,443,550	0	0	0	0	0	0	0	0	0	0	39,443,550	0
CLAIM RESERVE													
10. Present value of amounts not yet due on claims	25,036,537										0	25,036,537	0
11. Additional actuarial reserves-Asset/Liability analysis	40,697										40,697		0
12. Reserve for future contingent benefits	0										0		0
13. Aggregate write-ins for reserves	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Totals (Gross)	25,077,234	0	0	0	0	0	0	0	0	0	40,697	25,036,537	0
15. Reinsurance ceded	9,594,468										40,697	9,553,771	
16. Totals (Net)	15,482,766	0	0	0	0	0	0	0	0	0	0	15,482,766	0
17. TOTAL (Net)	54,926,316	0	0	0	0	0	0	0	0	0	0	54,926,316	0
18. TABULAR FUND INTEREST	2,058,471											2,058,471	
DETAILS OF WRITE-INS													
0601.													
0602.													
0603.													
0698. Summary of remaining write-ins for Line 6 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0	0
0699. TOTALS (Lines 0601 through 0603 plus 0698) (Line 6 above)	0	0	0	0	0	0	0	0	0	0	0	0	0
1301.													
1302.													
1303.													
1398. Summary of remaining write-ins for Line 13 from overflow page	0	0	0	0	0	0	0	0	0	0	0	0	0
1399. TOTALS (Lines 1301 through 1303 plus 1398) (Line 13 above)	0	0	0	0	0	0	0	0	0	0	0	0	0

(a) Indicate if blocks of business in run-off that comprise less than 5% of premiums and less than 5% of reserve and loans liability are aggregated with material blocks of business and which columns are affected.

(b) Attach statement as to valuation standard used in calculating this reserve, specifying reserve bases, interest rates and methods.

EXHIBIT 7 - DEPOSIT TYPE CONTRACTS

	1	2	3	4	5	6
	Total	Guaranteed Interest Contracts	Annuities Certain	Supplemental Contracts	Dividend Accumulations or Refunds	Premium and Other Deposit Funds
1. Balance at the beginning of the year before reinsurance	903,580,418	0	402,800,594	0	0	500,779,824
2. Deposits received during the year	18,387,558		18,387,558			
3. Investment earnings credited to the account	24,654,824		16,044,824			8,610,000
4. Other net change in reserves	125,651,287		125,646,023			5,264
5. Fees and other charges assessed	10,446,955		10,446,955			
6. Surrender charges	0					
7. Net surrender or withdrawal payments	154,625,727		146,013,729			8,611,998
8. Other net transfers to or (from) Separate Accounts	0					
9. Balance at the end of current year before reinsurance (Lines 1+2+3+4-5-6-7-8) (a)	907,201,405	0	406,418,315	0	0	500,783,090
10. Reinsurance balance at the beginning of the year	(115,610,144)	0	(122,961,683)	293,530	5,217,773	1,840,236
11. Net change in reinsurance assumed	(75,684)		(36,122)	(48,999)	(41,347)	50,784
12. Net change in reinsurance ceded	4,896,693		4,896,693			
13. Reinsurance balance at the end of the year (Lines 10+11-12)	(120,582,521)	0	(127,894,498)	244,531	5,176,426	1,891,020
14. Net balance at the end of current year after reinsurance (Lines 9 + 13)	786,618,884	0	278,523,817	244,531	5,176,426	502,674,110

(a) FHLB Funding Agreements:

1. Reported as GICs (captured in column 2)\$
2. Reported as Annuities Certain (captured in column 3)\$278,523,817
3. Reported as Supplemental Contracts (captured in column 4)\$244,531
4. Reported as Dividend Accumulations or Refunds (captured in column 5)\$5,176,426
5. Reported as Premium or Other Deposit Funds (captured in column 6)\$502,674,110
6. Total Reported as Deposit-Type Contracts (captured in column 1): (Sum of Lines 1 through 5) . \$786,618,884

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 1 - Liability End of Current Year								
	1	2	3	4	5	6	7	8
	Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident & Health	Fraternal	Other Lines of Business
1. Due and unpaid:								
1.1 Direct	0							
1.2 Reinsurance assumed	0							
1.3 Reinsurance ceded	0							
1.4 Net	0	0	0	0	0	0	0	0
2. In course of settlement:								
2.1 Resisted								
2.11 Direct	0							
2.12 Reinsurance assumed	0							
2.13 Reinsurance ceded	0							
2.14 Net	0	(b) 0	(b) 0	(b) 0	0	0	0	0
2.2 Other								
2.21 Direct	254,252,012	6,039,861	42,024	245,401,270	2,431,186	337,671		
2.22 Reinsurance assumed	2,615,255	1,339,659		628,972		646,624		
2.23 Reinsurance ceded	99,460,296	3,994,530	37,822	95,058,448	31,825	337,671		
2.24 Net	157,406,971	(b) 3,384,990	(b) 4,202	(b) 150,971,794	2,399,361	(b) 646,624	0	0
3. Incurred but unreported:								
3.1 Direct	3,631,415	3,234,789	13,405	200,058		183,163		
3.2 Reinsurance assumed	1,339,673	1,293,904	19,596			26,173		
3.3 Reinsurance ceded	1,404,090	1,208,810	12,065	52		183,163		
3.4 Net	3,566,998	(b) 3,319,883	(b) 20,936	(b) 200,006	0	(b) 26,173	0	0
4. TOTALS								
4.1 Direct	257,883,427	9,274,650	55,429	245,601,328	2,431,186	520,834	0	0
4.2 Reinsurance assumed	3,954,928	2,633,563	19,596	628,972	0	672,797	0	0
4.3 Reinsurance ceded	100,864,386	5,203,340	49,887	95,058,500	31,825	520,834	0	0
4.4 Net	160,973,969	(a) 6,704,873	(a) 25,138	151,171,800	2,399,361	672,797	0	0

(a) Including matured endowments (but not guaranteed annual pure endowments) unpaid amounting to \$ in Column 2 and \$ in Column 3.

(b) Include only portion of disability and accident and health claim liabilities applicable to assumed "accrued" benefits. Reserves (including reinsurance assumed and net of reinsurance ceded) for unaccrued benefits for Individual Life \$ Group Life \$, and Individual Annuities \$ are included in Page 3, Line 1, (See Exhibit 5, Section on Disability Disabled Lives); and for Accident and Health \$ are included in Page 3, Line 2 (See Exhibit 6, Claim Reserve).

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT 8 - CLAIMS FOR LIFE AND ACCIDENT AND HEALTH CONTRACTS

PART 2 - Incurred During the Year								
	1	2	3	4	5	6	7	8
	Total	Individual Life (a)	Group Life (b)	Individual Annuities	Group Annuities	Accident & Health	Fraternal	Other Lines of Business
1. Settlements During the Year:								
1.1 Direct	1,325,044,051	25,678,051	841,216	1,217,932,116	76,110,692	4,481,976		
1.2 Reinsurance assumed	16,812,005	8,218,794		3,679,306		4,913,905		
1.3 Reinsurance ceded	502,396,526	18,156,490	736,053	478,936,650	85,357	4,481,976		
1.4 Net (c)	839,459,530	15,740,355	105,163	742,674,772	76,025,335	4,913,905	0	0
2. Liability December 31, current year from Part 1:								
2.1 Direct	257,883,427	9,274,650	55,429	245,601,328	2,431,186	520,834	0	0
2.2 Reinsurance assumed	3,954,928	2,633,563	19,596	628,972	0	672,797	0	0
2.3 Reinsurance ceded	100,864,386	5,203,340	49,887	95,058,500	31,825	520,834	0	0
2.4 Net	160,973,969	6,704,873	25,138	151,171,800	2,399,361	672,797	0	0
3. Amounts recoverable from reinsurers December 31, current year	671,078	671,078						
4. Liability December 31, prior year:								
4.1 Direct	297,793,638	7,922,902	43,193	285,668,832	3,580,938	577,773	0	0
4.2 Reinsurance assumed	5,117,897	2,681,030	17,581	1,796,666	0	622,620	0	0
4.3 Reinsurance ceded	137,634,626	4,751,133	38,873	132,266,847	0	577,773	0	0
4.4 Net	165,276,909	5,852,799	21,901	155,198,651	3,580,938	622,620	0	0
5. Amounts recoverable from reinsurers December 31, prior year	2,547,295	2,547,295						
6. Incurred Benefits								
6.1 Direct	1,285,133,840	27,029,799	853,452	1,177,864,612	74,960,940	4,425,037	0	0
6.2 Reinsurance assumed	15,649,036	8,171,327	2,015	2,511,612	0	4,964,082	0	0
6.3 Reinsurance ceded	463,750,069	16,732,480	747,067	441,728,303	117,182	4,425,037	0	0
6.4 Net	837,032,807	18,468,646	108,400	738,647,921	74,843,758	4,964,082	0	0

(a) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$ 2,457,670 in Line 1.1, \$ 2,452,019 in Line 1.4.
\$ 2,457,670 in Line 6.1, and \$ 2,452,019 in Line 6.4.

(b) Including matured endowments (but not guaranteed annual pure endowments) amounting to \$ 13,887 in Line 1.1, \$ 1,389 in Line 1.4.
\$ 13,887 in Line 6.1, and \$ 1,389 in Line 6.4.

(c) Includes \$ premiums waived under total and permanent disability benefits.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT OF NON-ADMITTED ASSETS

	1	2	3
	Current Year Total Nonadmitted Assets	Prior Year Total Nonadmitted Assets	Change in Total Nonadmitted Assets (Col. 2 - Col. 1)
1. Bonds (Schedule D)			0
2. Stocks (Schedule D):			
2.1 Preferred stocks			0
2.2 Common stocks			0
3. Mortgage loans on real estate (Schedule B):			
3.1 First liens			0
3.2 Other than first liens			0
4. Real estate (Schedule A):			
4.1 Properties occupied by the company			0
4.2 Properties held for the production of income			0
4.3 Properties held for sale			0
5. Cash (Schedule E - Part 1), cash equivalents (Schedule E - Part 2) and short-term investments (Schedule DA)			0
6. Contract loans			0
7. Derivatives (Schedule DB)			0
8. Other invested assets (Schedule BA)	10,338,240		(10,338,240)
9. Receivables for securities			0
10. Securities lending reinvested collateral assets (Schedule DL)			0
11. Aggregate write-ins for invested assets	0	0	0
12. Subtotals, cash and invested assets (Lines 1 to 11)	10,338,240	0	(10,338,240)
13. Title plants (for Title insurers only)			0
14. Investment income due and accrued			0
15. Premiums and considerations:			
15.1 Uncollected premiums and agents' balances in the course of collection	8,801	5,378	(3,423)
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due .	2,614,645	4,225,358	1,610,713
15.3 Accrued retrospective premiums and contracts subject to redetermination			0
16. Reinsurance:			
16.1 Amounts recoverable from reinsurers			0
16.2 Funds held by or deposited with reinsured companies			0
16.3 Other amounts receivable under reinsurance contracts			0
17. Amounts receivable relating to uninsured plans			0
18.1 Current federal and foreign income tax recoverable and interest thereon			0
18.2 Net deferred tax asset		36,129,764	36,129,764
19. Guaranty funds receivable or on deposit			0
20. Electronic data processing equipment and software			0
21. Furniture and equipment, including health care delivery assets	4,434,946	5,389,360	954,414
22. Net adjustment in assets and liabilities due to foreign exchange rates			0
23. Receivables from parent, subsidiaries and affiliates			0
24. Health care and other amounts receivable			0
25. Aggregate write-ins for other-than-invested assets	111,623,362	8,955,194	(102,668,168)
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	129,019,994	54,705,054	(74,314,940)
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts			0
28. Total (Lines 26 and 27)	129,019,994	54,705,054	(74,314,940)
DETAILS OF WRITE-INS			
1101.			
1102.			
1103.			
1198. Summary of remaining write-ins for Line 11 from overflow page	0	0	0
1199. Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)	0	0	0
2501. Accounts receivable	7,031,905	8,955,194	1,923,289
2502. Non-admitted Disallowed IMR	104,591,457		(104,591,457)
2503.			
2598. Summary of remaining write-ins for Line 25 from overflow page	0	0	0
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	111,623,362	8,955,194	(102,668,168)

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

Note 1 - Summary of Significant Accounting Policies

A. Accounting Practices

The financial statements of the MassMutual Ascend Life Insurance Company (“MMALIC” or “the Company”) are presented on the basis of accounting practices prescribed or permitted by the Ohio Department of Insurance. The Company was formerly known as Great American Life Insurance Company.

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.

In 2021 the Ohio Department of Insurance promulgated Ohio Administrative Code Section 3901-1-67, Alternative Derivative and Reserve Accounting Practices (OAC 3901-1-67), which constitutes a prescribed practice as contemplated by the NAIC SAP. The prescribed practice allows Ohio-domiciled insurance companies to utilize certain alternative derivative and reserve accounting practices for eligible derivative instruments and indexed products, respectively, in order to better align the measurement of indexed product reserves and the derivatives that hedge them. Effective January 1, 2022, the Company elected to apply OAC 3901-1-67 to its derivative instruments hedging equity indexed annuity products and equity indexed reserve liabilities.

A reconciliation of the Company’s net income and capital and surplus between NAIC SAP and practices prescribed and permitted by the State of Ohio is shown below:

Net Income	SSAP #	F/S Page	F/S Line #	2024	2023
(1) State basis	XXX	XXX	XXX	\$ (253,910,535)	\$ (5,097,670)
(2) State prescribed practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX		
OAC 3901-1-67:					
Derivative instruments	86	4	7, 3	(58,654,726)	(49,286,793)
Reserves for fixed indexed annuities	51	4	1, 19	208,059,416	306,594,598
Tax impact	101	4	18.2, 32	2,639,023	686,970
(3) State permitted practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX	-	-
(4) NAIC SAP (1-2-3=4)	XXX	XXX	XXX	<u>\$ (405,954,249)</u>	<u>\$ (263,092,445)</u>
Surplus					
(5) Statutory surplus state basis	XXX	XXX	XXX	\$ 4,226,276,293	\$ 3,050,950,603
(6) State prescribed practices that increase/(decrease) NAIC SAP					
OAC 3901-1-67:					
Derivative instruments	86	2, 4	7, 3	(604,773,176)	(525,349,344)
Reserves for fixed indexed annuities	51	3, 4	1, 19	562,854,352	354,794,935
Tax impact	101	2, 4	18.2, 32	23,783,123	50,796,596
(7) State permitted practices that increase/(decrease) NAIC SAP	XXX	XXX	XXX	-	-
(8) NAIC SAP (5-6-7=8)	XXX	XXX	XXX	<u>\$ 4,244,411,995</u>	<u>\$ 3,170,708,416</u>

B. Use of Estimates in Preparation of the Financial Statements

The preparation of financial statements in conformity with NAIC SAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities. It also requires disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates.

C. Accounting Policy

Life premiums are recognized as revenues over the premium paying period of the related policies. Annuity considerations are recognized as revenue when received. Health premiums are earned ratably over the terms of the related insurance and reinsurance contracts or policies. Expenses incurred in connection with acquiring new insurance business, including acquisition costs such as sales commissions, are charged to operations as incurred.

In addition, the Company uses the following accounting policies:

- (1) Short-term investments are stated at cost.
- (2) Bonds with an NAIC rating of 1 through 5 are stated at amortized cost using the interest method; all others are stated at the lower of amortized cost or fair value. Mandatory convertible bonds are stated at the lower of book value or fair value, regardless of the NAIC designation. The Company does not own any SVO Identified Exchange Traded Funds.
- (3) Common stocks are stated at fair value, except investments in stocks of wholly owned subsidiaries which are carried on the equity basis, in accordance with Statement of Statutory Accounting Principle (“SSAP”) No. 97.
- (4) Redeemable preferred stocks rated P1 through P3 and perpetual preferred stocks rated 1 through 3 are stated at book value; all others are stated at the lower of book value or fair value.
- (5) Mortgage loans are stated at the aggregate carrying value less accrued interest. The Company has no real estate.
- (6) For residential mortgage-backed securities (RMBS), commercial mortgage-backed securities (CMBS) and loan-backed and structured securities (LBASS), the NAIC has retained a third-party investment management firm to assist in the determination of the appropriate NAIC designations and Book Adjusted Carrying Values based on not only the profitability of loss, but also the severity of loss. Those RMBS, CMBS and LBASS securities that are not modeled but receive a current year NAIC Credit Rating Provider (CRP) rating equal to NAIC 1 and 2 are stated at amortized cost and NAIC 3-6 are stated at lower of amortized cost or fair value. Mandatory convertible bonds are stated at the lower of book value or fair value, regardless of NAIC designation.
- (7) The Company carries several affiliated insurance companies and non-insurance companies at statutory and GAAP equity, respectively, in accordance with SSAP No. 97. The goodwill balances have been fully amortized.
- (8) Other invested assets are stated at the lower of cost or fair value, except investments in limited partnerships and limited liability companies. Investments in limited partnerships and limited liability companies are stated at the underlying audited GAAP equity.
- (9) Options to hedge the Company’s fixed-indexed annuities are valued at amortized cost (refer to Note 8). All other derivative instruments in the Company’s investment portfolio are valued at fair value. The impact of the change in the fair value is recognized as an unrealized gain or loss to surplus.
- (10) The Company anticipates investment income as a factor in the premium deficiency calculation, in accordance with SSAP No. 54R—*Individual and Group Accident and Health Contracts*.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

- (11) Liabilities for losses and loss/claim adjustment expenses for accident and health contracts are estimated by the Company's valuation actuary using statistical claim development models to develop best estimates of liabilities for medical expense business and using tabular reserves employing mortality/morbidity tables and discount rates specified by regulatory authorities for disability income business.

(12) The Company has not modified its capitalization policy from the prior period.

(13) The Company has no pharmaceutical rebate receivables.
- D. Going Concern
- After review of the Company's financial condition, management has no doubts about the Company's ability to continue as a going concern.

Note 2 - Accounting Changes and Corrections of Errors

In 2024, 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 \$42,711,147. The correction of error resulted in adjustments to investment activity related to prior years.

In 2023, 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 \$2,164,124. The correction of error resulted in adjustments to Bonds, Mortgage loans, Other invested assets, Derivatives, Accrued investment income and Payable for securities.

The Company had no material changes in accounting principles.

Note 3 - Business Combinations and Goodwill

- A. The Company has no business combinations accounted for under the statutory purchase method.
- B. The Company was not involved in any statutory mergers.
- C. The Company did not recognize any goodwill resulting from assumption reinsurance transactions.
- D. The Company did not recognize any impairment losses related to business combinations or goodwill.
- E. Subcomponents and Calculation of Adjusted Surplus and Total Admitted Goodwill

	Calculation of Limitation Using Prior Quarter Numbers	Current Reporting Period
(1) Capital & Surplus	\$ 3,126,997,825	XXX
Less:		
(2) Admitted Positive Goodw ill	-	XXX
(3) Admitted EDP Equipment & Operating System Softw are	-	XXX
(4) Admitted Net Deferred Taxes	338,695,716	XXX
(5) Adjusted Capital and Surplus (Line 1-+2-+3-+4)	\$ 2,788,302,109	XXX
(6) Limitation on amount of goodw ill (adjusted capital and surplus times 10% goodw ill limitation [Line 5*10%])	278,830,211	XXX
(7) Current period reporting Admitted Goodw ill	XXX	-
(8) Current Period Admitted Goodw ill as a % of prior period Adjusted Capital and Surplus (Line7/Line5)	XXX	0%

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

Note 4 - Discontinued Operations

The Company has no discontinued operations.

Note 5 - Investments

A. Mortgage Loans, including Mezzanine Real Estate Loans

- (1) The maximum and minimum lending rates for new mortgage loans during 2024 were:
Commercial mortgage loans 11.30% and 4.25%, residential mortgage loans 11.59% and 4.04% and mezzanine real estate loans 0% and 0%
- (2) The maximum percentage of any one loan to the value of security at the time of the loan, exclusive of mezzanine, insured, guaranteed or purchase money mortgages, was 100% as of December 31, 2024.
- (3) The Company had no taxes, assessments or any amounts advanced and not included in the mortgage loan total.
- (4) Age Analysis of Mortgage Loans and Identification of Mortgage Loans in which the Insurer is a Participant or Co-Lender in a Mortgage Loan Agreement:

	Farm	Residential		Commercial		Mezzanine	Total
		Insured	All Other	Insured	All Other		
a. Current Year							
1. Recorded Investment (All)							
a. Current	\$ -	\$ 374,248,820	\$ 2,959,093,782	\$ -	\$ 1,711,540,949	\$ 78,215,982	\$ 5,123,099,533
b. 30-59 Days Past Due	-	-	-	-	-	-	-
c. 60-89 Days Past Due	-	-	-	-	-	-	-
d. 90-179 Days Past Due	-	-	-	-	-	-	-
e. 180+ Days Past Due	-	-	-	-	-	-	-
2. Accruing Interest 90-179 Days Past Due							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Interest Accrued	-	-	-	-	-	-	-
3. Accruing Interest 180+ Days Past Due							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Interest Accrued	-	-	-	-	-	-	-
4. Interest Reduced							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Number of Loans	-	-	-	-	-	-	-
c. Percent Reduced	0%	0%	0%	0%	0%	0%	0%
5. Participant or Co-Lender in a Mortgage Loan Agreement							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Prior Year							
1. Recorded Investment (All)							
a. Current	\$ -	\$ 428,091,616	\$ 2,348,897,077	\$ -	\$ 1,431,927,155	\$ 47,593,713	\$ 4,256,509,561
b. 30-59 Days Past Due	-	-	-	-	-	-	-
c. 60-89 Days Past Due	-	-	-	-	-	-	-
d. 90-179 Days Past Due	-	-	-	-	-	-	-
e. 180+ Days Past Due	-	-	-	-	-	-	-
2. Accruing Interest 90-179 Days Past Due							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Interest Accrued	-	-	-	-	-	-	-
3. Accruing Interest 180+ Days Past Due							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Interest Accrued	-	-	-	-	-	-	-
4. Interest Reduced							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
b. Number of Loans	-	-	-	-	-	-	-
c. Percent Reduced	0%	0%	0%	0%	0%	0%	0%
5. Participant or Co-Lender in a Mortgage Loan Agreement							
a. Recorded Investment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

- (5) The Company had no investment in impaired loans with or without allowance for credit losses.
- (6) The Company had no investment in impaired loans.
- (7) The Company had no allowance for credit losses.
- (8) The Company had no mortgage loans derecognized as a result of foreclosure.
- (9) The Company recognizes interest income on its impaired loans upon receipt.

B. The Company has no restructured debt.

C. The Company has no investment in reverse mortgages.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

D. Loan-Backed Securities

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

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flow s	OTTI Charge Recognized in Income Statement	Amortized Cost After OTTI	Fair Value at Time of OTTI	Date Reported
07325DAF1	\$ 188,446	\$ 183,894	\$ 4,552	\$ 183,894	\$ 173,542	03/31/2024
07389NAC9	252,999	244,622	8,378	244,622	249,997	03/31/2024
3622EAAA8	3,363,495	3,323,775	39,721	3,323,775	3,153,854	03/31/2024
61751DAE4	1,528,252	1,458,023	70,229	1,458,023	1,795,267	03/31/2024
86358RXY8	141,707	140,513	1,193	140,513	140,491	03/31/2024
86358RXZ5	221,359	218,722	2,638	218,722	201,247	03/31/2024
00703QAD4	3,309,564	3,330,880	(21,316)	3,330,880	2,331,478	03/31/2024
02147XAR8	569,821	568,694	1,127	568,694	462,724	03/31/2024
02152AAS8	1,681,039	1,680,195	844	1,680,195	1,709,668	03/31/2024
059522AU6	1,990,654	1,977,703	12,952	1,977,703	1,952,207	03/31/2024
05952GAT8	319,263	302,417	16,846	302,417	279,733	03/31/2024
05952GAV3	458,831	435,162	23,669	435,162	402,521	03/31/2024
07386XAH9	947,290	948,547	(1,257)	948,547	771,263	03/31/2024
12566UAN4	549,670	541,211	8,459	541,211	531,037	03/31/2024
12566XAM0	651,755	636,729	15,027	636,729	579,587	03/31/2024
12628LAD2	664,264	632,237	32,026	632,237	522,656	03/31/2024
12667F4N2	1,982,772	1,961,149	21,623	1,961,149	1,892,614	03/31/2024
17309BAB3	197,256	194,233	3,023	194,233	166,593	03/31/2024
32051GT70	601,477	580,656	20,821	580,656	513,722	03/31/2024
36244SAD0	2,013,709	2,018,709	(5,000)	2,018,709	2,114,288	03/31/2024
43739EAP2	555,880	552,194	3,685	552,194	523,782	03/31/2024
46627MCY1	3,736,516	3,706,574	29,942	3,706,574	3,728,355	03/31/2024
46627MEC7	346,366	345,013	1,353	345,013	316,216	03/31/2024
46627MEJ2	1,051,940	1,051,330	610	1,051,330	871,833	03/31/2024
47232CAH7	1,625,552	1,588,003	37,549	1,588,003	1,634,793	03/31/2024
643529AC4	499,851	483,505	16,346	483,505	541,706	03/31/2024
65535VMJ4	528,500	514,916	13,584	514,916	545,242	03/31/2024
65535VNL8	1,911,718	1,911,036	683	1,911,036	2,083,864	03/31/2024
65535VSJ8	1,249,637	1,197,771	51,865	1,197,771	1,003,257	03/31/2024
74928RAB0	215,991	215,991	(0)	215,991	236,763	03/31/2024
75115BAC3	932,748	928,740	4,009	928,740	1,022,173	03/31/2024
761118BU1	501,401	464,499	36,902	464,499	506,476	03/31/2024
761118GS1	1,045,906	1,039,755	6,151	1,039,755	922,272	03/31/2024
761118SC3	1,408,050	1,385,794	22,255	1,385,794	1,191,653	03/31/2024
855541AC2	727,538	712,958	14,579	712,958	653,434	03/31/2024
863579J90	310,964	284,727	26,237	284,727	287,552	03/31/2024
86360BAJ7	659,289	637,763	21,526	637,763	625,317	03/31/2024
87222EAB4	751,711	731,584	20,127	731,584	682,690	03/31/2024
87222EAC2	870,200	839,182	31,018	839,182	680,970	03/31/2024
93934NAC9	441,899	429,939	11,960	429,939	357,528	03/31/2024
45660LCK3	2,514,539	2,470,098	44,442	2,470,098	2,723,605	03/31/2024
058931AT3	1,087,439	1,038,180	49,259	1,038,180	879,088	03/31/2024
05949CKX3	1,152,881	1,152,938	(58)	1,152,938	1,158,454	03/31/2024
05990HAT0	835,338	815,604	19,735	815,604	806,647	03/31/2024
07386YAE4	2,127,460	1,872,598	254,863	1,872,598	1,732,749	03/31/2024
07401CAS2	2,546,303	2,534,503	11,800	2,534,503	2,518,043	03/31/2024
12638PAB5	666,442	630,577	35,865	630,577	479,103	03/31/2024
12669G4K4	2,465,908	2,448,797	17,111	2,448,797	2,303,793	03/31/2024
12669GR45	454,211	451,011	3,200	451,011	405,877	03/31/2024
170257AE9	1,986,016	1,903,375	82,642	1,903,375	1,421,183	03/31/2024
2254582Y3	1,063,127	1,052,270	10,856	1,052,270	941,835	03/31/2024
225458L55	477,807	465,565	12,242	465,565	402,724	03/31/2024
32052EAA7	42,488	41,783	704	41,783	39,155	03/31/2024
32056JAA2	1,021,287	994,518	26,768	994,518	1,080,580	03/31/2024
362341FN4	694,244	680,711	13,534	680,711	609,991	03/31/2024
362341XC8	809,401	777,534	31,867	777,534	695,392	03/31/2024
41161PCX9	153,937	153,895	42	153,895	157,664	03/31/2024
46630WAL4	438,439	438,782	(343)	438,782	293,935	03/31/2024
576433D52	471,876	409,240	62,636	409,240	430,054	03/31/2024
57643MLZ5	205,469	199,902	5,567	199,902	176,526	03/31/2024
59023PAB9	470,257	467,493	2,764	467,493	476,269	03/31/2024
74958YAE2	262,093	259,755	2,338	259,755	258,713	03/31/2024
863579RP5	618,742	604,955	13,787	604,955	564,247	03/31/2024
863579UL0	255,178	254,285	893	254,285	237,173	03/31/2024

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flow s	OTTI Charge Recognized in Income Statement	Amortized Cost After OTTI	Fair Value at Time of OTTI	Date Reported
863579UU0	939,669	934,433	5,236	934,433	960,949	03/31/2024
863579XR4	1,954,913	1,890,491	64,421	1,890,491	1,887,147	03/31/2024
885220KW2	1,741,141	1,720,731	20,410	1,720,731	1,602,474	03/31/2024
03235TAA5	2,269,468	89,151	2,180,317	89,151	91,091	06/30/2024
62878HAA9	77,803,827	67,655,502	10,148,325	67,655,502	37,210,526	06/30/2024
07325DAF1	178,481	176,126	2,355	176,126	166,148	06/30/2024
3622EAAA8	3,292,504	3,184,660	107,843	3,184,660	3,041,184	06/30/2024
86358RXY8	123,852	123,852	0	123,852	123,889	06/30/2024
86358RXZ5	372,918	188,377	184,541	188,377	171,206	06/30/2024
00703QAD4	3,296,107	3,259,847	36,260	3,259,847	2,386,522	06/30/2024
02152AAS8	1,650,275	1,657,538	(7,263)	1,657,538	1,694,329	06/30/2024
05532TAF9	1,330,063	1,000,180	329,883	1,000,180	1,320,833	06/30/2024
059522AU6	2,241,312	1,925,540	315,772	1,925,540	1,895,287	06/30/2024
05952GAV3	459,594	459,364	231	459,364	396,506	06/30/2024
07384YKF2	1,676,124	1,597,771	78,353	1,597,771	1,509,395	06/30/2024
12566UAE4	391,661	388,055	3,606	388,055	342,216	06/30/2024
12566UAN4	537,632	510,793	26,839	510,793	530,113	06/30/2024
12628LAD2	642,284	622,397	19,887	622,397	514,736	06/30/2024
12667F4N2	1,914,833	1,908,135	6,698	1,908,135	1,810,552	06/30/2024
12667GAC7	587,654	584,787	2,867	584,787	567,539	06/30/2024
12668APC3	769,291	754,235	15,056	754,235	708,505	06/30/2024
17307GED6	1,262,267	1,251,250	11,017	1,251,250	1,309,786	06/30/2024
17309BAB3	194,329	190,609	3,721	190,609	163,894	06/30/2024
25150NAB0	1,429,029	1,411,817	17,212	1,411,817	1,189,708	06/30/2024
45254NNT0	86,269	46,530	39,739	46,530	37,525	06/30/2024
46627MAD9	497,454	495,061	2,393	495,061	429,325	06/30/2024
46627MCY1	3,504,842	3,460,914	43,928	3,460,914	3,510,994	06/30/2024
46627MEJ2	1,029,088	1,028,470	619	1,028,470	850,323	06/30/2024
61748HUF6	444,541	437,080	7,462	437,080	394,526	06/30/2024
643529AC4	488,451	472,942	15,509	472,942	512,282	06/30/2024
65535VSJ8	1,198,546	1,139,006	59,540	1,139,006	965,916	06/30/2024
75115DAA3	176,480	172,897	3,583	172,897	155,478	06/30/2024
75116FBH1	1,316,094	1,293,501	22,593	1,293,501	1,096,145	06/30/2024
76110HH85	209,667	196,650	13,018	196,650	207,840	06/30/2024
761118BU1	356,973	358,468	(1,495)	358,468	390,598	06/30/2024
761118FM5	1,654,272	1,550,452	103,819	1,550,452	1,634,697	06/30/2024
761118GS1	577,336	578,234	(897)	578,234	519,129	06/30/2024
761118SC3	1,347,876	1,353,200	(5,324)	1,353,200	1,178,737	06/30/2024
855541AC2	681,799	664,359	17,440	664,359	610,581	06/30/2024
863579J90	281,218	263,740	17,478	263,740	257,606	06/30/2024
86360BAG3	1,593,226	1,526,542	66,684	1,526,542	1,446,404	06/30/2024
86360BAJ7	732,362	624,365	107,997	624,365	608,246	06/30/2024
87222EAB4	737,391	714,622	22,770	714,622	678,658	06/30/2024
87222EAC2	854,908	824,739	30,169	824,739	673,478	06/30/2024
93934NAC9	212,897	212,897	0	212,897	177,003	06/30/2024
45660LCK3	2,492,599	2,447,687	44,912	2,447,687	2,730,961	06/30/2024
058931AT3	849,462	844,051	5,410	844,051	736,680	06/30/2024
05946XY72	969,731	968,019	1,712	968,019	907,973	06/30/2024
05990HAT0	797,257	776,355	20,901	776,355	770,842	06/30/2024
073880AD8	1,041,747	980,882	60,865	980,882	884,127	06/30/2024
07401CAS2	2,149,928	1,800,366	349,563	1,800,366	1,769,018	06/30/2024
12544DAG4	76,422	76,273	149	76,273	63,205	06/30/2024
1266942H0	487,696	485,711	1,985	485,711	402,837	06/30/2024
126694HP6	424,687	418,006	6,681	418,006	407,545	06/30/2024
12669G3S8	1,109,352	1,086,152	23,199	1,086,152	970,937	06/30/2024
12669G4K4	2,416,802	2,413,996	2,805	2,413,996	2,282,559	06/30/2024
12669GR45	488,586	443,234	45,352	443,234	418,915	06/30/2024
2254582Y3	1,038,258	1,042,487	(4,229)	1,042,487	922,895	06/30/2024
22547OVF7	1,214,433	1,144,277	70,156	1,144,277	1,034,928	06/30/2024
32052EAA7	41,561	40,891	670	40,891	38,638	06/30/2024
32056JAA2	946,028	935,645	10,383	935,645	957,523	06/30/2024
362341FN4	682,514	656,914	25,600	656,914	596,198	06/30/2024
362341XC8	753,782	753,720	62	753,720	684,524	06/30/2024
466247UG6	396,801	389,244	7,556	389,244	391,491	06/30/2024
46630WAL4	429,077	428,735	343	428,735	286,999	06/30/2024
46631NAA7	629,936	624,489	5,447	624,489	490,712	06/30/2024
46631NDT3	5,702,643	5,440,665	261,978	5,440,665	5,514,444	06/30/2024
52520MCE1	192,541	190,485	2,057	190,485	182,118	06/30/2024
57643MLZ5	197,781	191,438	6,343	191,438	175,020	06/30/2024
59023PAB9	459,882	457,928	1,954	457,928	464,081	06/30/2024
61758VAQ0	2,524,715	2,424,826	99,890	2,424,826	2,004,345	06/30/2024
74958YAE2	259,088	254,354	4,734	254,354	256,384	06/30/2024
863579RP5	601,854	558,618	43,237	558,618	556,863	06/30/2024
863579UL0	255,370	250,985	4,385	250,985	234,764	06/30/2024

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

CUSIP	Amortized Cost Before OTTI	Present Value of Projected Cash Flow s	OTTI Charge Recognized in Income Statement	Amortized Cost After OTTI	Fair Value at Time of OTTI	Date Reported
863579UU0	1,012,782	885,453	127,329	885,453	919,353	06/30/2024
863579XR4	1,816,437	1,747,652	68,785	1,747,652	1,724,184	06/30/2024
92925VAF7	1,963,141	1,392,435	570,706	1,392,435	1,835,677	06/30/2024
92979DAC9	2,345,113	2,281,758	63,356	2,281,758	2,403,743	06/30/2024
94985AAA7	172,846	172,336	510	172,336	162,836	06/30/2024
94986CAA2	160,856	162,103	(1,247)	162,103	209,862	06/30/2024
07325DAF1	168,747	158,506	10,241	158,506	162,126	09/30/2024
3622EAAA8	3,162,718	3,164,266	(1,548)	3,164,266	3,105,133	09/30/2024
86358RXZ5	173,920	162,831	11,089	162,831	147,869	09/30/2024
00703QAD4	3,230,243	2,980,491	249,753	2,980,491	2,393,260	09/30/2024
05951KAN3	536,453	516,986	19,467	516,986	480,378	09/30/2024
05952GAT8	301,408	301,407	1	301,407	279,298	09/30/2024
07384YKF2	1,545,478	1,473,109	72,368	1,473,109	1,502,463	09/30/2024
12566UAE4	382,321	381,811	510	381,811	347,647	09/30/2024
12628LAD2	623,895	538,842	85,054	538,842	488,888	09/30/2024
12667F4N2	1,854,333	1,825,794	28,539	1,825,794	1,795,414	09/30/2024
12667F5E1	885,926	883,092	2,834	883,092	840,192	09/30/2024
12667GAC7	574,616	574,616	0	574,616	569,728	09/30/2024
17307GED6	1,243,444	1,237,646	5,798	1,237,646	1,306,304	09/30/2024
17309BAB3	188,676	178,404	10,273	178,404	162,800	09/30/2024
25150NAB0	1,395,413	1,340,207	55,206	1,340,207	1,185,177	09/30/2024
32051GT70	553,883	489,420	64,463	489,420	470,987	09/30/2024
36244SAD0	2,079,721	1,738,096	341,626	1,738,096	1,990,034	09/30/2024
46627MAD9	485,365	467,136	18,228	467,136	418,182	09/30/2024
46627MEC7	333,531	312,472	21,058	312,472	300,268	09/30/2024
46627MEJ2	1,002,416	975,069	27,347	975,069	835,072	09/30/2024
61748HUF6	428,955	412,384	16,570	412,384	395,350	09/30/2024
643529AC4	475,293	476,634	(1,341)	476,634	500,686	09/30/2024
65535VSJ8	1,145,447	994,986	150,461	994,986	958,994	09/30/2024
75115DAA3	170,761	164,486	6,275	164,486	151,842	09/30/2024
761118FM5	1,541,807	1,543,298	(1,492)	1,543,298	1,629,022	09/30/2024
761118UG1	420,057	420,046	11	420,046	373,060	09/30/2024
863579J90	250,612	252,143	(1,531)	252,143	245,916	09/30/2024
86360BAG3	1,314,325	1,248,853	65,472	1,248,853	1,207,074	09/30/2024
86360BAJ7	600,711	599,768	944	599,768	589,162	09/30/2024
87222EAB4	717,218	700,713	16,505	700,713	677,103	09/30/2024
87222EAC2	837,388	792,140	45,248	792,140	670,814	09/30/2024
058931AT3	836,589	777,756	58,832	777,756	735,448	09/30/2024
05990HAT0	774,291	709,503	64,788	709,503	797,291	09/30/2024
073880AD8	958,917	955,572	3,345	955,572	876,008	09/30/2024
12544DAG4	75,232	74,708	525	74,708	64,751	09/30/2024
1266942H0	472,093	470,717	1,376	470,717	381,368	09/30/2024
12669G4K4	2,386,332	2,386,419	(87)	2,386,419	2,304,003	09/30/2024
16162YAL9	304,287	300,592	3,695	300,592	302,447	09/30/2024
170257AE9	1,844,597	1,830,194	14,403	1,830,194	1,400,315	09/30/2024
2254582Y3	1,035,685	987,491	48,194	987,491	916,096	09/30/2024
225470VF7	1,045,176	1,047,328	(2,152)	1,047,328	914,335	09/30/2024
466247UG6	388,455	385,026	3,430	385,026	394,828	09/30/2024
46630WAL4	414,400	402,824	11,576	402,824	275,971	09/30/2024
46631NAA7	619,024	566,235	52,789	566,235	485,405	09/30/2024
52520MCE1	187,510	169,666	17,844	169,666	178,580	09/30/2024
57643MLZ5	189,667	181,845	7,821	181,845	175,427	09/30/2024
74958YAE2	252,881	235,028	17,853	235,028	260,844	09/30/2024
863579UU0	872,015	877,227	(5,212)	877,227	896,401	09/30/2024
92925VAF7	1,353,551	1,353,551	(0)	1,353,551	1,805,104	09/30/2024
62878HAA9	57,507,177	37,210,526	20,296,651	37,210,526	37,210,526	12/31/2024
86358RXZ5	150,451	150,523	(72)	150,523	128,721	12/31/2024
00703QAD4	2,884,931	2,591,154	293,777	2,591,154	2,159,579	12/31/2024
07386XAH9	895,372	883,112	12,260	883,112	700,640	12/31/2024
225470Q89	461,254	350,813	110,442	350,813	316,228	12/31/2024
32051GT70	516,567	526,142	(9,576)	526,142	447,968	12/31/2024
45254NNT0	40,960	10,690	30,269	10,690	21,416	12/31/2024
46627MAD9	452,369	457,946	(5,577)	457,946	392,752	12/31/2024
61748HUF6	409,958	408,345	1,613	408,345	379,740	12/31/2024
86360BAG3	1,252,210	1,243,829	8,381	1,243,829	1,137,848	12/31/2024
86360BAJ7	622,383	583,382	39,002	583,382	556,638	12/31/2024
87222EAC2	792,850	794,291	(1,441)	794,291	638,603	12/31/2024
058931AT3	547,740	547,703	37	547,703	507,449	12/31/2024
073880AD8	947,481	946,754	728	946,754	863,064	12/31/2024
12638PAB5	650,731	553,226	97,504	553,226	453,690	12/31/2024
1266942H0	457,088	442,059	15,028	442,059	352,275	12/31/2024
126694CS5	2,368,937	2,330,168	38,769	2,330,168	1,789,779	12/31/2024
126694LC0	1,302,316	1,096,712	205,604	1,096,712	956,653	12/31/2024
170257AE9	1,799,754	1,793,779	5,975	1,793,779	1,342,095	12/31/2024
2254582Y3	981,101	981,382	(281)	981,382	878,279	12/31/2024
46630WAL4	400,452	395,212	5,240	395,212	268,169	12/31/2024
74958YAE2	230,512	230,132	380	230,132	247,059	12/31/2024
863579UU0	853,614	853,536	78	853,536	847,155	12/31/2024
			40,145,833			

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

- (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

\$

25,031,593

2. 12 Months or Longer

388,111,750
- b. The aggregate related fair value of securities with unrealized losses:

1. Less than 12 Months

\$

1,701,074,436

2. 12 Months or Longer

4,375,502,004
- (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. The Company has the intent to hold securities in an unrealized loss position until they recover in value or mature.

- E. Dollar Repurchase Agreements and/or Securities Lending Transactions – Not applicable.
- F. Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.
- G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing – Not applicable.
- H. Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.
- I. Reverse Repurchase Agreements Transactions Accounted for as a Sale – Not applicable.
- J. Real Estate

- (1) The Company did not recognize an impairment loss on real estate.
- (2) The Company had no real estate sales in 2024.
- (3) The Company did not experience changes to a plan of sale for an investment in real estate.
- (4) The Company does not engage in retail land sales operations.
- (5) The Company does not hold real estate investments with participating mortgage loans.

- K. Low Income Housing Tax Credits – Not applicable.

L. Restricted Assets

- (1) Restricted Assets (Including Pledged):

Restricted Asset Category	Gross (Admitted & Nonadmitted) Restricted							Percentage			
	Current Year					6	7	Current Year			
	1	2	3	4	5			8	9	10	11
	Total General Account (G/A)	G/A Supporting Separate Account (S/A) Activity (a)	Total S/A Restricted Assets	S/A Assets Supporting G/A Activity (b)	Total (1 plus 3)	Total From Prior Year	Increase/ (Decrease) (5 minus 6)	Total Nonadmitted Restricted	Total Admitted Restricted (5 minus 8)	Gross Restricted to Total Assets (c)	Admitted Restricted to Total Admitted Assets (d)
a. Subject to contractual obligation for which liability is not shown	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0%	0%
b. Collateral held under security lending agreements	-	-	-	-	-	-	-	-	-	0%	0%
c. Subject to repurchase agreements	-	-	-	-	-	-	-	-	-	0%	0%
d. Subject to reverse repurchase agreements	-	-	-	-	-	-	-	-	-	0%	0%
e. Subject to dollar repurchase agreements	-	-	-	-	-	-	-	-	-	0%	0%
f. Subject to dollar reverse repurchase agreements	-	-	-	-	-	-	-	-	-	0%	0%
g. Placed under option contracts	-	-	-	-	-	-	-	-	-	0%	0%
h. Letter stock or securities restricted as to sale - excluding FHLB capital stock	125,169,892	-	-	-	125,169,892	157,437,071	(32,267,178)	-	125,169,892	0.2%	0.2%
i. FHLB capital stock	41,525,200	-	-	-	41,525,200	41,525,200	-	-	41,525,200	0.1%	0.1%
j. On deposit with states	7,398,935	-	-	-	7,398,935	6,557,349	841,586	-	7,398,935	0.0%	0.0%
k. On deposit with other regulatory bodies	-	-	-	-	-	-	-	-	-	0.0%	0.0%
l. Pledged as collateral to FHLB (including assets backing funding agreements)	1,531,129,225	-	-	-	1,531,129,225	1,279,160,145	251,969,080	-	1,531,129,225	2.9%	2.9%
m. Pledged as collateral not captured in other categories	114,183,225	-	-	-	114,183,225	196,446,757	(82,263,532)	-	114,183,225	0.2%	0.2%
n. Other restricted assets	-	-	-	-	-	-	-	-	-	0.0%	0.0%
o. Total restricted assets	\$ 1,819,406,478	\$ -	\$ -	\$ -	\$ 1,819,406,478	\$ 1,681,126,522	\$ 138,279,956	\$ -	\$ 1,819,406,478	3.4%	3.4%

(a) Subset of column 1

(b) Subset of column 3

(c) Column 5 divided by Asset Page, Column 1, Line 28

(d) Column 9 divided by Asset Page, Column 3, Line 28

- (2) Detail of Assets Pledged as Collateral Not Captured in Other Categories (Contracts that Share Similar Characteristics, Such as Reinsurance and Derivatives Are Reported in the Aggregate)

Description of Assets	Gross (Admitted & Nonadmitted) Restricted							Percentage		
	Current Year					6	7	8	9	10
	1	2	3	4	5					
	Total General Account (G/A)	G/A Supporting Separate Account (S/A) Activity (a)	Total S/A Restricted Assets	S/A Assets Supporting G/A Activity (b)	Total (1 plus 3)	Total From Prior Year	Increase/(Decrease) (5 minus 6)	Total Current Year Admitted Restricted	Gross Restricted to Total Assets	Admitted Restricted to Total Admitted Assets
Derivatives	\$ 92,639,566	\$ -	\$ -	\$ -	\$ 92,639,566	\$ 165,416,503	\$ (72,776,937)	\$ 92,639,566	0.2%	0.2%
Futures	21,543,659	-	-	-	21,543,659	31,030,255	(9,486,595)	21,543,659	0.0%	0.0%
Total	\$ 114,183,225	\$ -	\$ -	\$ -	\$ 114,183,225	\$ 196,446,757	\$ (82,263,532)	\$ 114,183,225	0.2%	0.2%

(a) Subset of column 1

(b) Subset of column 3

(c) Total Line for Columns 1 through 7 should equal 5H(1)m Columns 1 through 7 respectively and Total Line for Columns 8 through 10 should equal 5H(1)m Columns 9 through 11 respectively

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

(3) Detail of Other Restricted Assets – Not applicable.

(4) Collateral Received and Reflected as assets Within the Reporting Entity's Financial Statements

Collateral Assets	1	2	3	4
	Book/Adjusted Carrying Value (BACV)	Fair Value	% of BACV to Total Assets (Admitted and Nonadmitted) *	% of BACV to Total Admitted Assets **
General Account:				
a. Cash, Cash Equivalents and Short-Term Investments	\$ -	\$ -	0.0%	0.0%
b. Schedule D, Part 1	-	-	0.0%	0.0%
c. Schedule D, Part 2, Section 1	-	-	0.0%	0.0%
d. Schedule D, Part 2, Section 2	-	-	0.0%	0.0%
e. Schedule B	-	-	0.0%	0.0%
f. Schedule A	-	-	0.0%	0.0%
g. Schedule BA, Part 1	-	-	0.0%	0.0%
h. Schedule DL, Part 1	-	-	0.0%	0.0%
i. Other	-	-	0.0%	0.0%
Total Collateral Assets				
j. (a+b+c+d+e+f+g+h+i)	\$ -	\$ -	0.0%	0.0%

* Column 1 divided by Asset Page, Line 26 (Column 1)

** Column 1 divided by Asset Page, Line 26 (Column 3)

	1	2
	Amount	% of Liability to Total Liabilities *
k. Recognized Obligation to Return Collateral Asset	\$ 1,566,308,892	3.3%

* Column 1 divided by Liability Page, Line 26 (Column 1)

M. Working Capital Finance Investments – Not applicable.

N. Offsetting and netting of assets and liabilities.

The Company reports derivative agreement assets and liabilities as gross in the financial statements without offsetting as of December 31, 2024.

O. 5GI Securities

Investment	Number of 5GI Securities		Aggregate BACV		Aggregate Fair Value	
	Current Year	Prior Year	Current Year	Prior Year	Current Year	Prior Year
(1) Bonds - AC	35	45	\$ 116,010,207	\$ 135,589,812	\$ 112,519,100	\$ 122,893,073
(2) LB&SS - AC	-	-	-	-	-	-
(3) Preferred Stock - AC	1	1	-	3,499,929	-	5,406,921
(4) Preferred Stock - FV	5	13	6,845,344	26,988,109	6,845,344	26,988,109
(5) Total (1+2+3+4)	41	59	\$ 122,855,551	\$ 166,077,850	\$ 119,364,444	\$ 155,288,103

AC - Amortized Cost

FV - Fair Value

P. Short Sales – Not applicable.

Q. Prepayment Penalties and Acceleration Fees – Not applicable

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

S. Aggregate Collateral Loans by Qualifying Investment Collateral – Not applicable.

Note 6 - Joint Ventures, Partnerships and Limited Liability Companies

A. The Company does not have any individual investments in joint ventures, partnerships or LLCs which exceed 10% of admitted assets for the years ended December 31, 2024 and December 31, 2023.

B. The accumulated unrealized losses are realized when they are not expected to be recovered. The Company recognized \$7,350,747 in 2024 and \$38,108 in 2023 in impairments on its investments in joint ventures, partnerships, and LLCs.

Note 7 - Investment Income

A. Due and accrued income was excluded from surplus on the following bases:

All investment income due and accrued with amounts that are over 90 days past due with the exception of mortgage loans in default.

B. The Company does not have any investment income due and accrued that is excluded from surplus.

C. The gross, nonadmitted and admitted amounts for interest income due and accrued.

Interest Income Due and Accrued	
1. Gross	\$535,440,032
2. Nonadmitted	\$ -
3. Admitted	\$535,440,032

D. The aggregate deferred interest.

Aggregate Deferred Interest	\$ -
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E. The cumulative amounts of paid-in-kind (PIK) interest included in the current principal balance.

Cumulative amounts of PIK interest included in the current principal balance	\$17,780,412
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NOTES TO FINANCIAL STATEMENTS

Note 8 - Derivative Instruments

The Company's derivative strategy employs a variety of derivative financial instruments, including options, interest rate and currency swaps, forward contracts and financial futures. Investment risk is assessed on a portfolio basis and individual derivative financial instruments are not generally designated in hedging relationships; therefore as allowed by statutory accounting practices, the Company intentionally has not applied hedge accounting.

The Company uses equity options purchased in either the over-the-counter market or on the Chicago Board Options Exchange as economic hedging transactions for financial accounting, regulatory and tax purposes for the associated liabilities of its indexed annuity products. Under the indexed annuity products, the crediting rate is linked to changes in the equity indices or Exchanged Traded Funds (ETF) for specified periods and participation rates. The prices of the options purchased are calculated with reference to the underlying index or ETF, participation rates, caps, floors, durations and notional amounts of the underlying contracts. The Company pays cash at the beginning of the contract and may pay or receive cash at expiration of the option as calculated in the option contract. The credit exposure is represented by the fair value of the contracts at the reporting date.

Effective January 1, 2022, the Company elected to apply OAC 3901-1-67 (Refer to Note 1) to the equity index call options hedging the fixed-indexed annuity ("FIA") products. Under OAC 3901-1-67, FIA options are carried at amortized cost. The settlement gains or losses are recorded through net investment income along with the amortization of the FIA options. The company recognized settlement gains on FIA options of \$1,110,225,665 and amortization expense of \$661,346,878 through net investment income during the period.

OAC 3901-1-67 was not elected for options hedging the registered indexed-linked annuity ("RILA") products. RILA options are carried at fair value. The settlement gains or losses are recorded through net realized capital gains or losses while the change in fair value is recognized as an unrealized gain or loss through surplus. The Company recognized an unrealized gain on RILA options of \$281,357,148 during the period.

The Company uses interest rate swaps to partially hedge the risk of a significant increase in interest rates on the fair value of the Company's investment portfolio. The credit exposure is represented by the fair value of the contracts at the reporting date. The Company recognized an unrealized gain of \$108,971,747 during the period on these swaps.

The Company uses currency swaps for the purpose of managing currency exchange risks in its assets and liabilities. The Company recognized an unrealized gain of \$32,612,155 during the period.

The Company utilizes certain other agreements including forward contracts and financial futures. Currency forwards are contracts in which the Company agrees with other parties to exchange specified amounts of identified currencies at a specific future date. Typically, the exchange rate is agreed upon at the time of the contract. The Company recognized an unrealized gain on currency forwards of \$26,451,546 during the period. The Company's futures contracts are exchange traded and have credit risk. Margin requirements are met with the deposit of securities. Futures contracts are generally settled with offsetting transactions. Forward contracts and financial futures are used by the Company to reduce exposures to various risks including interest rates and currency rates. The Company recognized an unrealized loss of \$20,973,705 on financial futures during the period.

Counterparties to financial instruments expose the Company to credit-related losses in the event of nonperformance. With most counterparties, the Company holds collateral to secure the performance by the counterparty. The Company does not expect any counterparties to fail to meet their obligations.

The Company has no derivative instruments with financing premiums.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

Note 9 - Income Taxes

On August 16th, 2022, the Inflation Reduction Act ("IRA") was signed into law and includes certain corporate income tax provisions. Potential impacts to the Company include the imposition of a corporate alternative minimum tax ("CAMT"). The CAMT imposes a 15% minimum tax on adjusted financial statement income on applicable corporations that have an average adjusted financial statement income over \$1 billion in the prior three-year period. The United States Treasury Department and the Internal Revenue Service released proposed regulations on September 12, 2024. As of the reporting date, the Company is not an applicable corporation and therefore not liable for CAMT in 2024.

A. Deferred Tax Assets and Deferred Tax Liabilities

1. The components of the net deferred tax asset/(liability) at December 31 are as follows:

	2024			2023			Change		
	Ordinary	Capital	Total	Ordinary	Capital	Total	Ordinary	Capital	Total
a. Gross deferred tax assets	\$ 479,938,922	\$ 178,677,180	\$ 658,616,102	\$ 368,931,243	\$ 78,399,057	\$ 447,330,300	\$ 111,007,679	\$ 100,278,123	\$ 211,285,802
b. Statutory valuation allowance adjustment	-	-	-	-	-	-	-	-	-
c. Adjusted gross deferred tax assets	479,938,922	178,677,180	658,616,102	368,931,243	78,399,057	447,330,300	111,007,679	100,278,123	211,285,802
d. Deferred tax assets nonadmitted	-	-	-	36,129,764	-	36,129,764	(36,129,764)	-	(36,129,764)
e. Subtotal net admitted deferred tax asset	479,938,922	178,677,180	658,616,102	332,801,479	78,399,057	411,200,536	147,137,443	100,278,123	247,415,566
f. Deferred tax liabilities	110,531,372	256,425,831	366,957,203	99,811,829	38,635,182	138,447,011	10,719,543	217,790,649	228,510,192
g. Net admitted deferred tax assets/(net deferred tax liability)	\$ 369,407,550	\$ (77,748,651)	\$ 291,658,899	\$ 232,989,650	\$ 39,763,875	\$ 272,753,525	\$ 136,417,900	\$ (117,512,526)	\$ 18,905,374

2. Admission calculation components, SSAP No. 101:

	2024			2023			Change		
	Ordinary	Capital	Total	Ordinary	Capital	Total	Ordinary	Capital	Total
a. Federal income taxes paid in prior years recoverable through loss carrybacks	\$ -	\$ 70,361,992	\$ 70,361,992	\$ -	\$ 42,279,584	\$ 42,279,584	\$ -	\$ 28,082,408	\$ 28,082,408
b. Adjusted gross deferred tax assets expected to be realized (excluding the amount of deferred tax assets from 2(a) above) after application of the threshold limitation. (The lesser of 2(b)1 and 2(b)2 below)	225,291,796	17,797,913	243,089,709	218,487,279	12,033,542	230,520,821	6,804,517	5,764,371	12,568,888
1. Adjusted gross deferred tax assets expected to be realized follow ing the balance sheet date	225,291,796	17,797,913	243,089,709	218,487,279	12,033,542	230,520,821	6,804,517	5,764,371	12,568,888
2. Adjusted gross deferred tax assets allow ed per limitation threshold	XXX	XXX	423,964,528	XXX	XXX	416,729,562	XXX	XXX	7,234,967
c. Adjusted gross deferred tax assets (excluding the amount of deferred tax assets from 2(a) and 2(b) above) offset by gross deferred tax liabilities	254,647,126	90,517,275	345,164,401	114,314,200	24,085,931	138,400,131	140,332,926	66,431,344	206,764,270
d. Deferred tax assets admitted as the result of application of SSAPNo. 101	\$ 479,938,922	\$ 178,677,180	\$ 658,616,102	\$ 332,801,479	\$ 78,399,057	\$ 411,200,536	\$ 147,137,443	\$ 100,278,123	\$ 247,415,566

3. Other admissibility criteria:

	2024	2023
a. Ratio percentage used to determine recovery period and threshold limitation amount	857%	828%
b. Amount of adjusted capital and surplus used to determine recovery period and threshold limitation in 2(b)2 above	\$ 2,826,430,189	\$ 2,778,197,077

4. Impact of tax planning strategies:

	2024		2023		Change	
	Ordinary	Capital	Ordinary	Capital	Ordinary	Capital
a. Determination of adjusted gross deferred tax assets and net admitted deferred tax assets, by tax character as a percentage						
1. Adjusted gross DTAs amount from Note 9A1(c)	\$ 479,938,922	\$ 178,677,180	\$ 368,931,243	\$ 78,399,057	\$ 111,007,679	\$ 100,278,123
2. Percentage of adjusted gross DTAs by tax character attributable to the impact of tax planning strategies	0%	0%	0%	0%	0%	0%
3. Net admitted adjusted gross DTAs amount from Note 9A1(e)	479,938,922	178,677,180	332,801,479	78,399,057	147,137,443	100,278,123
4. Percentage of net admitted adjusted gross DTAs by tax character admitted because of the impact of tax planning strategies	0%	0%	4%	0%	-4%	0%
b. Does the company's tax planning strategies include the use of reinsurance? Yes [] No [X]						

B. The Company has recognized all of its deferred tax liabilities.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

C. Current income taxes incurred consist of the following major components:

(1) Current income tax expense:

	2024	2023	Change
a. Federal	\$ 85,540,828	\$241,806,133	\$ (156,265,305)
b. Foreign	138,277	30,334	107,943
c. Subtotal	85,679,105	241,836,467	(156,157,362)
d. Federal income tax (benefit) expense on net capital gains	51,507,697	(23,434,572)	74,942,269
e. Utilization of capital loss carry-forwards	-	-	-
f. Other	-	-	-
g. Federal and foreign income taxes incurred	<u>\$137,186,802</u>	<u>\$218,401,895</u>	<u>\$ (81,215,093)</u>

(2) Deferred tax assets:

	2024	2023	Change
a. Ordinary			
1 Discounting of unpaid losses	\$ -	\$ -	\$ -
2 Unearned premium reserve	-	-	-
3 Policyholder reserve	249,238,959	168,143,401	81,095,558
4 Investments	126,476,014	111,759,535	14,716,479
5 Deferred acquisition costs	91,387,480	77,564,558	13,822,922
6 Policyholder dividends accrual	-	-	-
7 Fixed assets	73,185	56,870	16,315
8 Compensation and benefits accrual	-	-	-
9 Pension accrual	61,768	204,878	(143,110)
10 Receivables - nonadmitted	5,129,993	3,900,811	1,229,182
11 Net operating loss carry-forward	-	-	-
12 Tax credit carry-forward	-	-	-
13 Other	676,214	1,452,881	(776,667)
14 Accruals	6,895,309	5,848,309	1,047,000
15 Amortization of intangibles	-	-	-
16 Underwriting expenses	-	-	-
99 Subtotal	<u>\$479,938,922</u>	<u>\$368,931,243</u>	<u>\$ 111,007,679</u>
b. Statutory valuation allowance adjustment	-	-	-
c. Nonadmitted	-	36,129,764	(36,129,764)
d. Admitted ordinary deferred tax assets	<u>\$479,938,922</u>	<u>\$332,801,479</u>	<u>\$ 147,137,443</u>
e. Capital			
1 Investments	\$178,677,180	\$ 78,399,057	\$ 100,278,123
2 Net capital loss carry-forward	-	-	-
3 Real estate	-	-	-
4 Other	-	-	-
5 Non-insurance subsidiaries	-	-	-
99 Subtotal	<u>\$178,677,180</u>	<u>\$ 78,399,057</u>	<u>\$ 100,278,123</u>
f. Statutory valuation allowance adjustment	-	-	-
g. Nonadmitted	-	-	-
h. Admitted capital deferred tax assets	<u>\$178,677,180</u>	<u>\$ 78,399,057</u>	<u>\$ 100,278,123</u>
i. Admitted deferred tax assets	<u>\$658,616,102</u>	<u>\$411,200,536</u>	<u>\$ 247,415,566</u>

(3) Deferred tax liabilities:

	2024	2023	Change
a. Ordinary			
1 Investments	\$ 85,048,294	\$ 55,777,887	\$ 29,270,407
2 Fixed assets	-	-	-
3 Deferred and uncollected premium	-	-	-
4 Policyholder reserves	14,248,726	21,720,738	(7,472,012)
5 Other	-	30,509	(30,509)
6 Policy loans	209,658	233,306	(23,648)
7 Reserve transition adjustment	11,024,694	22,049,389	(11,024,695)
99 Subtotal	<u>\$110,531,372</u>	<u>\$ 99,811,829</u>	<u>\$ 10,719,543</u>
b. Capital			
1 Investments	\$100,782,816	\$ 38,635,182	\$ 62,147,634
2 Unrealized gains	155,643,015	-	155,643,015
3 Real estate	-	-	-
4 Other	-	-	-
99 Subtotal	<u>\$256,425,831</u>	<u>\$ 38,635,182</u>	<u>\$ 217,790,649</u>
c. Deferred tax liabilities	<u>\$366,957,203</u>	<u>\$138,447,011</u>	<u>\$ 228,510,192</u>

(4) Net deferred tax assets/(liabilities)	<u>\$291,658,899</u>	<u>\$272,753,525</u>	<u>\$ 18,905,374</u>
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ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

D. The provision for federal income taxes incurred on operations is different from that which would be obtained by applying the statutory federal income tax rate to income before income taxes. The significant items causing this difference are as follows:

	12-2024	12-2023
Provision computed at federal statutory rate	\$ (50,068,679)	\$ (29,628,642)
Reinsurance items	-	11,657,590
Investment items	5,423,433	(3,829,068)
Nonadmitted assets	(1,229,182)	2,331,192
Tax credits	(4,098,545)	(27,758)
Sec 481 - change in accounting method	-	25,200,000
Vine Street transfer from MML	98,325,299	-
Derivative transfer to unrealized	(7,845,730)	-
Other	(3,170,607)	(1,875,882)
Total statutory income tax expense (benefit)	\$ 37,335,989	\$ 3,827,432
Federal and foreign income tax expense (benefit)	\$ 137,186,802	\$ 218,401,895
Change in net deferred income taxes	(99,850,813)	(214,574,463)
Total statutory income tax expense (benefit)	\$ 37,335,989	\$ 3,827,432

- E. (1) The Company does not have any operating loss carry-forwards or capital loss carry-forwards available to offset future net income subject to federal income taxes.
- (2) The following are income taxes on operations and realized gains incurred in the current and prior years that will be available for recoupment in the event of future net losses:

Period	Ordinary	Capital	Total
2024	\$ -	\$ 56,945,154	\$ 56,945,154
2023	\$ -	\$ -	\$ -
2022	\$ -	\$ 13,416,838	\$ 13,416,838

- (3) The Company had no deposits to disclose under Section 6603 of the Internal Revenue Service Code.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

- F. The Company's federal income tax return is consolidated.
- (1) The Company's federal income tax return is consolidated with the following entities:

AAG Insurance Agency, LLC
Annuity Investors Life Insurance Company
MM Ascend Life Investor Services, LLC
MassMutual Ascend Life Insurance Company
Manhattan National Holding, LLC
Manhattan National Life Insurance Company
- (2) Beginning in June of 2021, MMALIC and its subsidiaries entered into a separate intercompany tax allocation agreement (the Tax Agreement). The Tax Agreement sets forth the manner in which the total combined federal income is allocated among the subsidiaries. The Tax Agreement provides MMALIC with the enforceable right to recoup federal income taxes paid in prior years in the event of future net capital losses, which it may incur. Further, the Tax Agreement provides MMALIC with the enforceable right to utilize its net losses carried forward as an offset to future net income subject to federal income taxes. Estimated payments are made quarterly during the year. Following year-end, additional settlements are made on the original due date of the return and, when extended, at the time the return is filed. In accordance with the tax allocation agreement, any future corporate alternative minimum tax (CAMT) is outside of the scope of the general tax allocation method and, consequently any future CAMT liability of a subsidiary shall be allocated solely to MM Ascend, the common parent of the Group.
- G. Federal or Foreign Income Tax Loss Contingencies
- The Company does not have any tax loss contingencies.
- H. Repatriation Transition Tax (RTT) – Not applicable.
- I. Alternative Minimum Tax (AMT) Credit – Not applicable.

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

- A., B. & C.
- The Company is a wholly-owned subsidiary of Glidepath Holdings Inc. ("Glidepath") which is a subsidiary of Massachusetts Mutual Life Insurance Company ("MMLIC"); 100% of the Company's outstanding common stock is directly owned by Glidepath Holdings Inc. See Schedule Y, Part 1, Organizational Chart.
- The Company did not pay or receive federal income tax payments in cash to (from) parent during the period.
- The Company paid an extraordinary dividend to its parent in the amount of \$600,000,000 on December 23, 2024. The cash portion of the dividend was \$100,000,000 and the rest was a stock dividend.
- The Company received a capital contribution of \$1,333,221,544 in December 2024. The contribution consisted of \$1,234,896,245 of invested assets and cash of \$98,325,299.
- D. As of December 31, 2024, the Company reported \$615,153 due from and \$450,873 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 involving the Company:
- (1) The Company has an agreement with Barings (an affiliate) which provides investment advisory services to the Company.
- (2) Certain administrative, management, underwriting, claims, 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 Glidepath Holdings Inc., a subsidiary of MMLIC.
- 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 that exceeds 10% of admitted assets.
- 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 owns 100% of the outstanding stock of Manhattan National Holding, LLC ("MNH"), a wholly owned non-insurance subsidiary. MNH owns 100% of the stock of Manhattan National Life Insurance Company ("MNLIC"), a stock life insurance company domiciled in Ohio. The Company utilizes the look-through approach for the valuation of MNH instead of obtaining audited financial statements for MNH. The Company's carrying value in MNH is \$16,546,125, and represents the carrying value of MNLIC, which is presented on the basis of accounting practices prescribed or permitted by the Ohio Department of Insurance.
- M. All SCA Investments
- (1) Balance Sheet (Admitted and Nonadmitted) All SCAs (Except 8bi Entities)

SCA Entity	Percentage of SCA Ownership	Gross Amount	Admitted Amount	Nonadmitted amount
a. SSAP No. 97 8a Entities				
Total SSAP No. 97 8a Entities	XXX	\$ -	\$ -	\$ -
b. SSAP No. 97 8b(ii) Entities				
Manhattan National Holding, LLC	100%	\$ 16,546,125	\$ 16,546,125	\$ -
Total SSAP No. 97 8b(ii) Entities	XXX	\$ 16,546,125	\$ 16,546,125	\$ -
c. SSAP No. 97 8b(iii) entities				
MM Ascend Life Investor Services, LLC	100%	\$ 1,010,867	\$ 1,010,867	\$ -
Total SSAP No. 97 8b(iii) Entities	XXX	\$ 1,010,867	\$ 1,010,867	\$ -
d. SSAP No. 97 8b(iv) Entities				
Total SSAP No. 97 8b(iv) Entities	XXX	\$ -	\$ -	\$ -
e. Total SSAP No. 97 8b Entities (except 8bi entities) (b+c+d)	XXX	\$ 17,556,992	\$ 17,556,992	\$ -
f. Aggregate Total (a+e)	XXX	\$ 17,556,992	\$ 17,556,992	\$ -

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

(2) NAIC Filing Response Information

SCA Entity	Type of NAIC Filing *	Date of Filing to the NAIC	NAIC Valuation Amount	NAIC Response Received Y/N	NAIC Disallow ed Entities Valuation Method, Resubmission Required Y/N	Code **
a. SSAP No. 97 8a Entities						
Total SSAP No. 97 8a Entities	XXX	XXX	-	XXX	XXX	XXX
b. SSAP No. 97 8b(ii) Entities						
Manhattan National Holding, LLC	S2	7/1/2024	\$ 16,809,990	Y	N	I
Total SSAP No. 97 8b(ii) Entities	XXX	XXX	\$ 16,809,990	XXX	XXX	XXX
c. SSAP No. 97 8b(iii) entities						
MM Ascend Life Investor Services, LLC	S2	9/25/2024	\$ 893,047	Y	N	I
Total SSAP No. 97 8b(iii) Entities	XXX	XXX	\$ 893,047	XXX	XXX	XXX
d. SSAP No. 97 8b(iv) Entities						
Total SSAP No. 97 8b(iv) Entities	XXX	XXX	\$ -	XXX	XXX	XXX
e. Total SSAP No. 97 8b Entities (except 8bi entities) (b+c+d)	XXX	XXX	\$ 17,703,037	XXX	XXX	XXX
f. Aggregate Total (a+e)	XXX	XXX	\$ 17,703,037	XXX	XXX	XXX

* S1 - Sub-1, S2 - Sub-2 or RDF - Resubmission of Disallow ed Filing
** I - Immaterial or M - Material

N. Investment in Insurance SCAs

All U.S insurance subsidiaries owned by the Company prepare their statutory financial statement in compliance with NAIC statutory accounting practices and procedures.

O. SCA and SSAP No. 48 Entity Loss Tracking – Not applicable.

Note 11 - Debt

- A. The Company has no outstanding debt instruments.
- B. Federal Home Loan Bank Agreements

(1) The Company became a member of the Federal Home Loan Bank (“FHLB”) on August 14, 2009. Through its association with the FHLB and by purchasing a set amount of FHLB stock, the Company can enter into deposit contracts. The Company owned \$41,525,200 of FHLB stock at December 31, 2024 and December 31, 2023. The Company also posted collateral to the FHLB of assets with a fair value of approximately \$1,458,538,268 as of December 31, 2024. The Company’s FHLB borrowing capacity is based on the Company’s estimate of collateral eligible to be pledged with the FHLB. The deposit-type contract liabilities and related assets are accounted for in the Company’s general account.
- (2) FHLB Capital Stock

a. The Company held 200,000 shares of Class B membership stock at December 31, 2024 and December 31, 2023. The Company held 215,252 shares of activity and excess stock at December 31, 2024 and December 31, 2023.

b. The Company has no membership stock eligible for redemption.
- (3) Collateral Pledged to FHLB

a. The amount of collateral pledged to the FHLB at December 31, 2024 was \$1,458,538,268 (fair value) and \$1,531,129,225 (carrying value). The total aggregate borrowing from the FHLB at December 31, 2024 was \$500,000,000.

b. The maximum amount of collateral pledged to the FHLB during the period was \$1,590,851,496 (fair value) and \$1,671,355,293 (carrying value) at March 31, 2024. The amount borrowed from the FHLB at the time of maximum collateral was \$500,000,000.
- (4) Borrowing from FHLB

a. The Company has accessed a total of \$500,000,000 as part of the funding agreement with the FHLB.

b. The maximum amount of borrowings from the FHLB during the period was \$500,000,000.

c. The current borrowings related to fixed rate funding agreements are subject to prepayment penalties.

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

- A., B., C. & D.

The Company does not participate in a defined benefit plan.
- E. Defined Contribution Plan

For 2024, the Company contributed to the retirement plans of Glidepath. The plans are for benefit of eligible employees of Glidepath providing services to MMALIC and affiliates. Glidepath sponsored a funded qualified defined contribution 401(k) thrift savings plan and unfunded nonqualified deferred compensation thrift savings plan for its employees and retirees. The Company’s total matching thrift savings contributions included in general insurance expenses were \$4,708,290 for the year ended December 31, 2024 and \$4,458,732 for the year ended December 31, 2023. As of the close of business on December 31, 2024, the Company transitioned to a MMLIC employee qualified defined contribution plan and unfunded nonqualified deferred compensation thrift savings plan
- F. The Company does 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.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

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

- A. The Company's capital is common stock. There are 1,200,000 shares authorized and 223,333 shares issued and outstanding, with a per share par value of \$7.50. There are no other classes of capital stock.
- B. The Company has no preferred stock outstanding.
- C. The maximum amount of dividends which can be paid to stockholders by life insurance companies domiciled in the State of Ohio without prior approval of the Insurance Commissioner is the greater of 10% of surplus as regards policyholders or net income as of the preceding December 31, but only to the extent of earned surplus as of the preceding December 31. The maximum amount of dividends payable in 2025 without prior approval is \$422,460,129 based on 10% of surplus as regards to policy holders as of the preceding December 31. At December 31, 2024, surplus as regards policyholders was \$4,224,601,293, earned surplus was \$1,822,444,966, and net loss was \$253,910,535.
- D. The Company paid an extraordinary dividend to its parent in the amount of \$600,000,000 on December 23, 2024. The cash portion of the dividend was \$100,000,000 and the rest was a stock dividend.
- E. Within the limitations of (C) above, there are no restrictions placed on the portion of Company profits that may be paid as ordinary dividends to stockholders.
- F. The Company has placed no restrictions on unassigned surplus funds.
- G. The total amount of advances to surplus not repaid is \$0. The Company is not organized as a mutual insurer or similar entity.
- H. The amounts of stock held by the Company, including stock of affiliated companies, for special purposes are:

i. a.

ii. b.

iii. c.

For conversion of preferred stock:

For employee stock options:

For stock purchase warrants:

0 shares

0 shares

0 shares
- I. The Company has \$253,755,983 in special surplus funds, which consists of admitted disallowed interest maintenance reserve at December 31, 2024.
- J. The portion of unassigned funds (surplus) represented or reduced by each item below is as follows:

a. Unrealized gains and losses (excluding subsidiaries):

b. Nonadmitted asset values:

c. Separate account business:

d. Asset valuation reserves:

e. Provision for reinsurance:

\$

\$

\$

\$

\$

741,157,212

(129,019,994)

-

(636,335,984)

-
- K. The Company has not issued any surplus debentures or similar obligations.
- L. & M. There has been no restatement of surplus due to quasi-reorganization.

Note 14 - Contingencies

A. Contingent Commitments

(1) Loan and Capital Commitments

As of December 31, 2024, the Company had the following commitments:

	2025	2026	2027	2028	2029	Thereafter	Total
Private Placements	\$ 22,777,726	\$ 97,886,894	\$ 196,346,083	\$ 59,806,782	\$ 79,606,621	\$ 730,006,462	\$ 1,186,430,567
Mortgage Loans	106,152,860	225,543,281	101,366,264	18,795,892	11,999,999	2,643,088	466,501,384
Real Estate	1,100,404	1,070,317				5,120,994	7,291,714
Partnerships and LLC	27,293,908	31,333,185	50,905,486	53,921,948	80,862,102	198,548,470	442,865,100
Preferred Stock	16,000,000					1,763,889	17,763,889
Total	\$ 173,324,898	\$ 355,833,677	\$ 348,617,833	\$ 132,524,622	\$ 172,468,721	\$ 938,082,903	\$ 2,120,852,653

(2) The Company has no guarantees to report.

(3) The Company has no guarantee obligations to report.

- B. The Company holds a guaranty fund assessment liability for future assessments of \$1,723,219. The Company also holds a premium tax offset asset related to guaranty fund assessments paid or accrued.
- C. The Company has no gain contingencies to report.
- D. The Company is not aware of any claims related to extra contractual obligations and bad faith losses stemming from lawsuits.
- E. The Company has no joint and several liabilities.
- F. The Company is not aware of any other material loss contingencies as of the Balance Sheet date, or any date subsequent up to the filing of this statement.

Note 15 - Leases

A.

- (1) As of December 31, 2024, the Company has leases for office space in the Rosa Parks Building and 312 Elm Street in Cincinnati, OH.

Rental expense for Rosa Parks Building and 312 Elm Street for 2024 was \$1,606,780 and \$44,551, respectively.

- a. There are no contingent rental payments for these leases.
- b. There are no renewal or purchase options or escalation clauses for these leases.
- c. There are no restrictions imposed by these lease agreements such as those concerning dividends, additional debt, and further leasing.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

d. There are no lease agreements that have been terminated early or for which the Company is no longer using the leased property benefits.

(2) At December 31, 2024, the minimum aggregate rental commitments are as follows:

	Years	Operating Leases
1.	2025	\$ 1,815,113
2.	2026	1,845,894
3.	2027	1,883,035
4.	2028	1,874,478
5.	2029	1,907,476
6.	Thereafter	3,429,064
7.	Total	<u>\$ 12,755,061</u>

(3) Not applicable.

B. Not applicable.

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

The Company does not have financial instruments with off-balance sheet risk or financial instruments with concentrations of credit risk, except as described in Note 8 – Derivative Instruments.

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

The Company had no reportable transactions during the period.

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 Measurements

A.

(1) Fair Value Measurements at Reporting Date

The Company has categorized its assets and liabilities measured at fair value or net asset value (“NAV”) into the three-level fair value hierarchy as reflected in the following table. See item (4) below for a discussion of each of these three levels.

	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Total
Assets at fair value					
Bonds:					
Special revenue	\$ -	\$ -	\$ -	\$ -	\$ -
Industrial and misc. (unaffiliated)	-	12,228,073	22,615,578	-	34,843,651
Total bonds	\$ -	\$ 12,228,073	\$ 22,615,578	\$ -	\$ 34,843,651
Non-affiliated preferred stock	\$ 77,914,044	\$ -	\$ 69,477,322	\$ -	\$ 147,391,366
Non-affiliated common stock	138,873,483	-	157,845,808	-	296,719,291
Affiliated common stock	-	-	-	-	-
Currency sw aps	-	10,427,833	-	-	10,427,833
Currency forw ards	-	23,350,656	-	-	23,350,656
Interest rate sw aps	-	160,083,201	-	-	160,083,201
Financial futures	-	-	-	-	-
Separate account assets	-	984,227,760	-	-	984,227,760
Total assets at fair value	<u>\$ 216,787,527</u>	<u>\$ 1,190,317,523</u>	<u>\$ 249,938,708</u>	<u>\$ -</u>	<u>\$ 1,657,043,758</u>
Liabilities at fair value					
Currency sw aps	\$ -	\$ 16,626,917	\$ -	\$ -	\$ 16,626,917
Currency forw ards	-	1,871,983	-	-	1,871,983
Interest rate sw aps	-	90,461,247	-	-	90,461,247
Separate account liabilities	-	984,227,760	-	-	984,227,760
Total liabilities at fair value	<u>\$ -</u>	<u>\$ 1,093,187,907</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,093,187,907</u>

(2) Fair Value Measurements in Level 3 of the Fair Value Hierarchy

	Beginning Balance at 12/31/2023	Transfers into Level 3	Transfers out of Level 3	Total Gains and (losses) included in Net Income	Total Gains and (losses) included in Surplus	Purchases	Issuances	Sales	Settlements	Other Adjustments	Ending Balance at 12/31/2024
Bonds: industrial and misc (unaffiliated)	\$ 6,318,702	\$ -	\$ -	\$ (22,268)	\$ (10,805,201)	\$ 3,895,997	\$ 8,411,815	\$ -	\$ (664,703)	\$ 15,481,236	\$ 22,615,578
Non-affiliated preferred stock	67,752,802	-	-	-	5,990,815	-	-	-	-	(4,266,295)	69,477,322
Non-affiliated common stock	158,241,133	5,824,488	-	21,571,021	(2,310,776)	28,082	(7,846,815)	(151,498)	(37,988,723)	20,478,896	157,845,808
Total	<u>\$ 232,312,637</u>	<u>\$ 5,824,488</u>	<u>\$ -</u>	<u>\$ 21,548,753</u>	<u>\$ (7,125,162)</u>	<u>\$ 3,924,079</u>	<u>\$ 565,000</u>	<u>\$ (151,498)</u>	<u>\$ (38,653,426)</u>	<u>\$ 31,693,837</u>	<u>\$ 249,938,708</u>

(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. All transfers are reflected in the table above at fair value as of the end of the reporting period.

(4) Inputs and Techniques Used in Estimating Fair Value

NOTES TO FINANCIAL STATEMENTS

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's Level 3 is comprised of financial instruments whose fair value is estimated based on non-binding broker quotes or internally developed using significant inputs not based on, or corroborated by, observable market information.

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

(5) Derivative Assets and Liabilities

- a. The Company's derivative assets/liabilities are reported on a gross basis (see 20-A-(1)).
- b. The Company has no gross or net derivative assets/liabilities measured at fair value in the Level 3 category.

- B. The Company has no additional fair value disclosures.
- C. The Company has categorized all the financial assets in the financial statements into the three-level fair value hierarchy as reflected in the following table. See item (4) above for a discussion of each of these three levels.

Type of Financial Instrument	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Financial assets:							
Bonds:							
U.S. Governments	\$ 131,226,589	\$ 168,616,733	\$ -	\$ 131,226,589	\$ -	\$ -	\$ -
All other government	13,456,980	14,773,157	-	8,921,169	4,535,812	-	-
States, territories and possessions	151,532,578	157,498,100	-	151,532,578	-	-	-
Political subdivisions of states, territories	217,153,117	221,790,343	-	217,153,117	-	-	-
Special revenue	1,625,446,781	1,759,110,248	-	1,610,031,814	15,414,967	-	-
Industrial and misc. (unaffiliated)	31,564,790,606	33,030,242,570	-	22,226,951,564	9,337,839,041	-	-
Hybrid securities	1,209,292,975	1,186,522,974	-	1,196,328,975	12,964,000	-	-
Parent, subs and affiliates	959,222,736	969,652,569	-	779,038,039	180,184,697	-	-
Total bonds	\$ 35,872,122,362	\$ 37,508,206,694	\$ -	\$ 26,321,183,845	\$ 9,550,938,517	\$ -	\$ -
Non affiliated preferred stock	352,980,265	297,875,760	185,416,136	-	167,564,128	-	-
Non affiliated common stock	296,719,291	296,719,291	138,873,483	-	157,845,808	-	-
Mortgage loans	4,975,801,174	5,123,099,533	-	-	4,975,801,174	-	-
Currency forw ards	23,350,656	23,350,656	-	23,350,656	-	-	-
Fixed-indexed annuity options	973,421,625	681,845,621	403,856,811	569,564,813	-	-	-
Interest rate sw aps	160,083,201	160,083,201	-	160,083,201	-	-	-
Currency sw aps	10,427,833	10,427,833	-	10,427,833	-	-	-
Separate account assets	984,227,760	984,227,760	-	984,227,760	-	-	-
Cash, cash equivalents and short-term investments	3,411,231,703	3,411,231,703	3,411,231,703	-	-	-	-
Policy loans	27,524,475	27,524,475	-	-	27,524,475	-	-
Total financial assets	47,087,890,345	48,524,592,527	4,139,378,134	\$ 28,068,838,109	\$ 14,879,674,102	\$ -	\$ -
Financial liabilities:							
Currency sw aps	\$ 16,626,917	\$ 16,626,917	\$ -	\$ 16,626,917	\$ -	\$ -	\$ -
Currency forw ards	1,871,983	1,871,983	-	1,871,983	-	-	-
Interest rate sw aps	90,461,247	90,461,247	-	90,461,247	-	-	-
Fixed-indexed annuity options	-	304,574,245	-	-	-	-	-
Separate account liabilities	984,227,760	984,227,760	-	984,227,760	-	-	-
Total financial liabilities	\$ 1,093,187,907	\$ 1,397,762,152	\$ -	\$ 1,093,187,907	\$ -	\$ -	\$ -

- 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

- A. On February 17, 2022, the Company entered into a Funds Withheld Coinsurance agreement effective February 1, 2022, with Martello Re Limited ("Martello Re"), a Bermuda-domiciled Class E life and annuity reinsurer launched in 2022. The Company ceded statutory reserves of \$14.2 billion on a closed block of fixed, fixed indexed and payout annuity policies, in exchange for a \$320 million ceding commission paid by Martello Re. Under this agreement, the Company ceded approximately \$7.5 billion of annuity reserves at December 31, 2024.

The Company entered into a quota share indemnity reinsurance agreement on fixed-indexed annuity ("FIA") policies with Hannover Life Reassurance Company of America ("HLR") effective December 31, 2018. Effective January 1, 2022 the Company has recaptured the FIA policies ceded to HLR in the agreement that became effective on December 31, 2018. The financial impact of the reinsurance recapture is a decrease to statutory capital of \$140.6 million.

- B. The Company had no troubled debt restructuring.

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NOTES TO FINANCIAL STATEMENTS

C. Other Disclosures:

The table below shows the impact of reinsurance agreements on net premium and annuity considerations:

	12/31/2024	12/31/2023
Direct premiums and annuity considerations	\$ 9,093,032,844	\$ 8,775,756,905
Assumed reinsurance	5,547,347	6,632,601
Ceded reinsurance excluding flow and block	(13,862,575)	(14,864,107)
Flow reinsurance ceded	(497,071,373)	(218,737,731)
Subtotal	8,587,646,243	8,548,787,668
Block reinsurance ceded	(4,361,281)	(7,877,892)
Martello Reinsurance	(32,105,435)	(34,139,008)
Net premium and annuity considerations (Page 4, Line 1)	\$ 8,551,179,527	\$ 8,506,770,768

D. The Company has no business interruption insurance recoveries.

E. The Company has no state transferable or non-transferable tax credits.

F. Subprime Mortgage Related Risk Exposure

(1) Included in determining the Company's exposure to subprime mortgage loans are the debt and equity securities of companies whose principal business includes the origination, securitization, providing of mortgage insurance on, investment in or management of subprime mortgage loans. Also included in such determination are those residential MBS and collateral debt obligations in which the ultimate collateral supporting anticipated cash flows are subprime mortgage loans. In general, we limit the Company's purchases of subprime residential MBS to those securities with AAA ratings and whose underlying collateral is fixed-rate (as opposed to adjustable rate).

(2) The Company does not have any investments with direct exposure in subprime mortgage loans.

(3) Direct exposure to subprime mortgage risk through other investments in the following securities:

	Actual Cost	Book/Adjusted Carrying Value (excluding interest)	Fair Value	Temporary Impairment Losses Recognized
a. Residential MBS	\$ 1,197,025,538	\$ 1,191,365,188	\$ 1,113,694,784	\$ 441,160
b. Commercial MBS	-	-	-	-
c. Collateralized debt obligations	-	-	-	-
d. Structured securities	-	-	-	-
e. Equity investments in SCAs	-	-	-	-
f. Other assets	-	-	-	-
g. Total	\$ 1,197,025,538	\$ 1,191,365,188	\$ 1,113,694,784	\$ 441,160

(4) The Company has no net underwriting exposure to subprime mortgage risk through Mortgage Guaranty or Financial Guaranty coverage.

G. The Company does not have retained asset accounts.

H. The Company is not an issuer, ceding issuer, or counterparty of insurance-linked securities.

I. The Amount That Could Be Realized on Life Insurance Where the Reporting Entity is Owner and Beneficiary or Has Otherwise Obtained Rights to Control the Policy – Not Applicable

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

J. Reporting Net Negative (Disallowed) Interest Maintenance Reserve (IMR)

1. Net negative (disallow ed) IMR

Total	General Account	Insulated Separate Account	Non-Insulated Separate Account
\$ 358,347,440	\$ 358,347,440	\$ -	\$ -

2. Negative (disallow ed) IMR admitted

Total	General Account	Insulated Separate Account	Non-Insulated Separate Account
\$ 253,755,983	\$ 253,755,983	\$ -	\$ -

3. Calculated adjusted capital and surplus

	Total
a. Prior period general account capital and surplus	\$ 3,126,997,825
From prior period SAP financials	-
b. Net positive goodwill (admitted)	-
c. EDP equipment and operating system softw are (admitted)	-
d. Net DTAs (admitted)	3,637,661
e. Net negative (disallow ed) IMR (admitted)	250,742,310
f. Adjusted capital and surplus (a-(b+c+d+e))	<u>\$ 2,872,617,854</u>

4. Percentage of adjusted capital and surplus

	Total
Percentage of total net negative (disallow ed) IMR admitted in general account or recognized in separate account to adjusted capital and surplus	9%

5. Allocated gains/losses to IMR from derivatives

	Gains	Losses
1. Unamortized fair value derivative gains and losses realized to IMR – prior period	\$ 4,428,148	\$ (1,080,018)
2. Fair value derivative gains and losses realized to IMR – added in current period	340,432	(21,878,442)
3. Fair value derivative gains and losses amortized over current period	2,403,109	(2,771,929)
4. Unamortized fair value derivative gains and losses realized to IMR – current period total	2,365,471	(20,186,530)

Note 22 - Events Subsequent

Management has evaluated all events occurring after December 31, 2024, through the date the financials statements were available to be issued, to determine whether any event required either recognition or disclosure in the financial statements. There have been no subsequent events that have a material financial effect on the Company.

Note 23 - Reinsurance

A. Ceded Reinsurance Report

Section 1 – General Interrogatories

- (1) Are any of the reinsurers, listed in Schedule S as non-affiliated, owned in excess of 10% or controlled, either directly or indirectly, by the Company or by any representative, officer, trustee, or director of the Company?
Yes () No (x) If yes, give full details
- (2) Have any policies issued by the Company been reinsured with a company chartered in a country other than the United States (excluding U.S. Branches of such companies) that is owned in excess of 10% or controlled directly or indirectly by an insured, a beneficiary, a creditor or any other person not primarily engaged in the insurance business?
Yes () No (x) If yes, give full details

Section 2 – Ceded Reinsurance Report – Part A

- (1) Does the Company have any reinsurance agreements in effect under which the reinsurer may unilaterally cancel any reinsurance for reasons other than for nonpayment of premium or other similar credits?
Yes () No (x)

a. If yes, what is the estimated amount of the aggregate reduction in surplus of a unilateral cancellation by the reinsurer as of the date of this statement, for those agreements in which cancellation results in a net obligation of the Company to the reinsurer, and for which such obligation is not presently accrued? Where necessary, the Company may consider the current or anticipated experience of the business reinsured in making this estimate. \$0

c. What is the total amount of reinsurance credits taken, whether as an asset or as a reduction of liability, for these agreements in this statement? \$0
- (2) Does the Company have any reinsurance agreements in effect such that the amount of losses paid or accrued through the statement date may result in a payment to the reinsurer of amounts that, in aggregate and allowing for offset of mutual credits from other reinsurance agreements with the same reinsurer, exceed the total direct premium collected under the reinsured policies?

Yes () No (x) If yes, give full details

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

Section 3 – Ceded Reinsurance Report – Part B

- (1) If all reinsurance agreements were terminated by either party as of December 31,2024, the resulting reduction in surplus due to loss of reinsurance reserve credits net of unearned premium would be \$325,899,147, assuming no return of the assets (excluding assets in trust) backing these reserves from the reinsurer to the Company.
- (2) Have any new agreements been executed, or existing agreements amended, since January 1 of the year of this statement, to include policies or contracts that were in force or which had existing reserves established by the Company as of the effective date of the agreement?
Yes () No (x)

If yes, what is the amount of reinsurance credits, whether an asset or a reduction of liability, taken for such new agreements or amendments?

N/A

B. Uncollectible Reinsurance

- (1) The Company has written off in the current year reinsurance balances due from the companies listed below, the amount of: \$1,095,600.

That is reflected as:		
a.	Claims incurred	\$ -
b.	Claims adjustment expenses	\$ -
c.	Premiums earned	\$ 1,095,600
d.	Other	\$ -
e.	Company	Amount
	Scottish Re US Inc.	\$ 1,095,600

C. Commutation of Ceded Reinsurance

The Company was not involved in any commutation of ceded reinsurance.

D. Certified Reinsurer Rating Downgraded or Status Subject to Revocation

The Company had no reinsurance contracts with certified reinsurers.

E., F. & G.

The Company has no captive reinsurance agreements.

H. Reinsurance Credit

- (1) The Company had no reinsurance contracts subject to A-791 that includes a provision which limits the reinsurer’s assumption of significant risks identified as A-791.
- (2) The Company had no reinsurance contracts not subject to A-791, for which reinsurance accounting was applied and includes a provision that limits the reinsurer’s assumption of risk.
- (3) The Company had no reinsurance contracts which result in delays in payment.
- (4) The Company had no reinsurance accounting credit for any contracts not subject to Appendix A-791 and not yearly renewable term, which meet the risk transfer requirements of SSAP No. 61R.
- (5) All of the Company’s ceded annuity risk which is not subject to A-791 during the period covered by the financial statement is accounted for as reinsurance under statutory accounting principles and as deposits under GAAP (refer to Schedule S Part 3, Section 1 for more detail).
- (6) The contracts in paragraph 23-H-5 are treated differently because annuities are not considered insurance contracts for GAAP.

Note 24 - Retrospectively Rated Contracts & Contracts Subject to Redetermination

Not applicable.

Note 25 - Change in Incurred Losses and Loss Adjustment Expenses

Reserves on accident and health contracts for incurred and loss adjustment expenses attributable to insured events of prior years developed as anticipated during the period. See Schedule H and Five Year Historical Data. Original estimates are increased or decreased as additional information becomes known regarding individual claims. However, no significant trends or unanticipated events were noted. None of the Company’s accident and health contracts are subject to retrospective rating or experience refunds.

Note 26 - Intercompany Pooling Arrangements

Not applicable.

Note 27 - Structured Settlements

Not applicable.

Note 28 - Health Care Receivables

Not applicable.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

Note 29 - Participating Policies

- A. Participating policies represent less than 1% of the Company's total life insurance in force.
- B. Policyholder dividends are recognized on the policy anniversary.
- C. Dividends to policyholders in 2024 were \$10,851.
- D. There are no other amounts of additional income allocated to participating policyholders.

Note 30 - Premium Deficiency Reserves

The following table shows the amount of premium deficiency reserves on the MMALIC Balance sheet as of 12/31/23:

(1) Liability carried for premium deficiency reserves	\$ 293,314
(2) Date of the most recent evaluation of this liability	12/31/2024
(3) Was anticipated investment income utilized in the calculation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Note 31 - Reserves for Life Contracts and Annuity Contracts

- (1) The Company waives deduction of deferred fractional premiums upon death of insured and returns any portion of the final premium beyond the date of death. Surrender values are not promised in excess of the legally computed reserves.
- (2) Reserves for substandard policies are equal to the standard reserve for the particular plan, age and duration plus 50% of the extra premium charged for the year.
- (3) The Company had \$12,748,750 of insurance in force for which the gross premiums are less than the net premiums according to the required valuation standard. Reserves to cover the above insurance are reported in Exhibit 5, Miscellaneous Reserves.
- (4) The tabular interest has been determined by the formula as described in the instructions. The tabular less actual reserve released has been determined by the formula as described in the instructions. The tabular cost has been determined by the formula as described in the instructions.
- (5) Tabular interest on funds not involving life contingencies is calculated as the product of such valuation rate of interest times the mean of the amount of funds subject to such valuation rate of interest held at the beginning and end of the year of valuation.
- (6) The Company has no reserve changes not captured elsewhere.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

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

Withdrawal Characteristics of Annuity Actuarial Reserves and Deposit – Type Contract Funds and Other Liabilities Without Life or Disability Contingencies

A. INDIVIDUAL ANNUITIES:

	General Account	Separate Account with Guarantees	Separate Account Nonguaranteed	Total	% of Total
1. Subject to discretionary withdrawal:					
a. With market value adjustment	\$ 28,630,195,917	\$ -	\$ -	\$ 28,630,195,917	60.0%
b. At book value less current surrender charge of 5% or more	5,221,343,984	-	-	5,221,343,984	10.9%
c. At fair value	-	-	908,591,201	908,591,201	1.9%
d. Total with market value adjustment or at fair value (total of a through c)	33,851,539,902	-	908,591,201	34,760,131,103	72.8%
e. At book value without adjustment (minimal or no charge or adjustment)	10,670,068,860	-	-	10,670,068,860	22.4%
2. Not subject to discretionary withdrawal	2,268,877,617	-	-	2,268,877,617	4.8%
3. Total (gross: direct + assumed)	46,790,486,379	-	908,591,201	47,699,077,580	100.0%
4. Reinsurance ceded	11,583,209,781	-	-	11,583,209,781	
5. Total (net) (3) - (4)	\$ 35,207,276,597	\$ -	\$ 908,591,201	\$ 36,115,867,799	
6. Amount included in A(1)b above that will move to A(1)e in the year after the statement date	\$ 1,051,613,743	\$ -	\$ -	\$ 1,051,613,743	

B. GROUP ANNUITIES:

	General Account	Separate Account with Guarantees	Separate Account Nonguaranteed	Total	% of Total
1. Subject to discretionary withdrawal:					
a. With market value adjustment	\$ -	\$ -	\$ -	\$ -	0.0%
b. At book value less current surrender charge of 5% or more	113,059,593	-	-	113,059,593	7.0%
c. At fair value	-	-	-	-	0.0%
d. Total with market value adjustment or at fair value (total of a through c)	113,059,593	-	-	113,059,593	7.0%
e. At book value without adjustment (minimal or no charge or adjustment)	645,278,135	-	-	645,278,135	40.1%
2. Not subject to discretionary withdrawal	851,133,988	-	-	851,133,988	52.9%
3. Total (gross: direct + assumed)	1,609,471,716	-	-	1,609,471,716	100.0%
4. Reinsurance ceded	455,197,754	-	-	455,197,754	
5. Total (net) (3) - (4)	\$ 1,154,273,962	\$ -	\$ -	\$ 1,154,273,962	
6. Amount included in A(1)b above that will move to A(1)e in the year after the statement date	\$ 2,423,281	\$ -	\$ -	\$ 2,423,281	

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

NOTES TO FINANCIAL STATEMENTS

C. DEPOSIT-TYPE CONTRACTS
(no life contingencies):

	General Account	Separate Account w ith Guarantees	Separate Account Nonguaranteed	Total	% of Total
1. Subject to discretionary w ithdraw al:					
a. With market value adjustment	\$ -	\$ -	\$ -	\$ -	0.0%
b. At book value less current surrender charge of 5% or more	-	-	-	-	0.0%
c. At fair value	-	-	-	-	0.0%
d. Total w ith market value adjustment or at fair value (total of a through c)	-	-	-	-	0.0%
e. At book value w ithout adjustment (minimal or no charge or adjustment)	-	-	-	-	0.0%
2. Not subject to discretionary w ithdraw al	907,201,406	-	-	907,201,406	100.0%
3. Total (gross: direct + assumed)	907,201,406	-	-	907,201,406	100.0%
4. Reinsurance ceded	120,582,521	-	-	120,582,521	
5. Total (net) (3) - (4)	<u>\$ 786,618,884</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 786,618,884</u>	
6. Amount included in A(1)b above that w ill move to A(1)e in the year after the statement date	\$ -	\$ -	\$ -	\$ -	

D.	Amount
Life & Accident & Health Annual Statement:	
1. Exhibit 5, Annuities Section, Total (net)	\$ 36,360,896,946
2. Exhibit 5, Supplementary Contracts w ith Life Contingencies Section, Total (net)	653,614
3. Exhibit 7, Deposit-Type Contracts, Line 14, Column 1	<u>786,618,884</u>
4. Subtotal	37,148,169,444
Separate Accounts Annual Statement:	
5. Exhibit 3, Line 0299999, Column 2	908,591,201
6. Exhibit 3, Line 0399999, Column 2	-
7. Policyholder dividend and coupon accumulations	-
8. Policyholder premiums	-
9. Guaranteed interest contracts	-
10. Other contract deposit funds	-
11. Subtotal	<u>908,591,201</u>
12. Combined Total	<u>\$ 38,056,760,645</u>

Note 33 - Analysis of Life Actuarial Reserves by Withdrawal Characteristics

Account value, cash value and reserves for the breakouts of life insurance by withdrawal characteristics, separately for General Account products and Separate Account Nonguaranteed products are as follows:

	Account Value	Cash Value	Reserve
A. General Account			
(1) Subject to discretionary w ithdraw al, surrender values, or policy loans:			
a. Term Policies w ith Cash Value	-	-	-
b. Universal Life	101,570,801	101,055,096	101,055,089
c. Universal Life w ith Secondary Guarantees	-	-	-
d. Indexed Universal Life	-	-	-
e. Indexed Universal Life w ith Secondary Guarantees	-	-	-
f. Indexed Life	-	-	-
g. Other Permanent Cash Value Life Insurance	-	46,587,327	46,587,327
h. Variable Life	-	-	-
i. Variable Universal Life	-	-	-
j. Miscellaneous Reserves	-	-	-
(2) Not subject to discretionary w ithdraw al or no cash values			
a. Term Policies w ithout Cash Value	XXX	XXX	176,727,065
b. Accidental Death Benefits	XXX	XXX	62,670
c. Disability - Active Lives	XXX	XXX	50,036
d. Disability - Disabled Lives	XXX	XXX	4,008,109
e. Miscellaneous Reserves	XXX	XXX	5,159,673
(3) Total (gross: direct + assumed)	<u>101,570,801</u>	<u>147,642,423</u>	<u>333,649,970</u>
(4) Reinsurance ceded	61,317,834	89,919,262	206,812,753
(5) Total (net) (3) - (4)	<u>40,252,967</u>	<u>57,723,161</u>	<u>126,837,218</u>

B. & C. The Company does not have a Separate Account related to Life Reserves.

D.	Amount
Life & Accident & Health Annual Statement:	
(1) Exhibit 5, Life Insurance Section, Total (net)	\$ 121,908,823
(2) Exhibit 5, Accidental Death Benefits Section, Total (net)	33,301
(3) Exhibit 5, Disability - Active Lives Section, Total (net)	16,207
(4) Exhibit 5, Disability - Disabled Lives Section, Total (net)	1,366,849
(5) Exhibit 5, Miscellaneous Reserves Section, Total (net)	<u>3,512,038</u>
(6) Total	<u>\$ 126,837,218</u>

NOTES TO FINANCIAL STATEMENTS

Note 34 - Premium and Annuity Considerations Deferred and Uncollected

A. Deferred and uncollected life insurance premiums and annuity considerations as of December 31, 2024, were as follows:

Type	Gross	Net of Loading
(1) Industrial	\$ -	\$ -
(2) Ordinary New Business	21,503	4,716
(3) Ordinary Renewal	5,928,650	4,475,208
(4) Credit Life	-	-
(5) Group Life	-	-
(6) Group Annuity	-	-
(7) Total	\$ 5,950,153	\$ 4,479,924

Note 35 - Separate Accounts

A. Separate Account Activity

- (1) The Company utilizes a separate account to record and account for assets and liabilities for individual registered index linked annuities. MMALIC maintains the separate account pursuant to the laws of Ohio for the purpose of supporting the obligation to adjust the indexed strategy values based on the daily value calculation or rise and fall of the index. The assets of the separate account are held in MMALIC's name on behalf of the separate account and legally belong to MMALIC. The assets in the separate account are not chargeable with liabilities arising out of any other business the Company conducts. MMALIC may invest these assets in hedging instruments, including derivative contracts as well as other assets permitted under state law (ORC 3907.15). To support the Company's obligations to adjust the index strategy values, the Company may move funds between the separate account and the general account. MMALIC is not obligated to invest the assets of the separate account according to any particular plan except as the Company may be required to by state insurance laws (MMALIC does have a derivative use plan).
- (2) In accordance with the products and transactions recorded within the separate accounts, all assets are considered legally insulated from the general account and are not chargeable with liabilities incurred in any other business operation of the Company. As of December 31, 2024 and 2023, the Company's separate account statement included legally insulated registered index linked annuity assets of \$984,163,451 and \$443,319,567, respectively.
- (3) With regard to the products/transactions recorded within the separate account, registered index linked annuity products have guarantees backed by the general account. The separate account does not remit any risk charges to the general account for guaranteed benefits for the registered index linked annuity products. The general account has not paid any guarantees for registered index linked annuity products through December 31, 2024.
- (4) The Company does not engage in securities lending transactions with the separate account.

B. General Nature and Characteristics of Separate Accounts Business

The separate account held by the Company relates to individual registered index linked annuities of a nonguaranteed return nature. Indexed strategies are linked to the performance of an external index. The performance of those strategies is credited to the policyholder and can be positive up to a maximum gain or negative up to a maximum loss. A minimum guaranteed death benefit is also provided, which is the greater of the account value or the return of premium amount (purchase payments reduced proportionally for all withdrawals, not including early withdrawal charges). The assets and liabilities of these accounts are carried at fair value.

Information regarding the separate account of the Company is as follows:

	Index	Nonindexed Guarantee Less than/equal to 4%	Nonindexed Guarantee More than 4%	Nonguaranteed Separate Accounts	Total
(1) Premiums, considerations or deposits for year ended 12/31/2023	\$ -	\$ -	\$ -	\$ -	\$ -
Reserves at 12/31/2024					
(2) For accounts with assets at:					
a. Fair value	\$ -	\$ -	\$ -	\$ 908,591,201	\$908,591,201
b. Amortized cost	-	-	-	-	-
c. Total reserves	\$ -	\$ -	\$ -	\$ 908,591,201	\$908,591,201
(3) By withdrawal characteristics:					
a. Subject to discretionary withdrawal	\$ -	\$ -	\$ -	\$ -	\$ -
b. With fair value adjustment	-	-	-	-	-
c. At book value without fair value adjustment and with current surrender charge of 5% or more	-	-	-	-	-
d. At fair value	-	-	-	908,591,201	908,591,201
e. At book value without fair value adjustment and with current surrender charge less than 5%	-	-	-	-	-
f. Subtotal	-	-	-	908,591,201	908,591,201
g. Not subject to discretionary withdrawal	-	-	-	-	-
h. Total	\$ -	\$ -	\$ -	\$ 908,591,201	\$908,591,201
(4) Reserves for asset default risk in lieu of AVR	\$ -	\$ -	\$ -	\$ -	\$ -

C. The following is a reconciliation of the net transfer to (from) the Separate Account:

- (1) Transfers as reported in the Summary of Operations of the Separate Accounts Statement:
- a. Transfers to Separate Accounts (Page 4, Line 1.4) \$ -
- b. Transfers from Separate Accounts (Page 4, Line 10) (521,139,514)
- c. Net transfers to or (from) Separate Accounts (a) - (b) \$ 521,139,514
- (2) Reconciling Adjustments \$ -
- (3) Transfers as reported in the Summary of Operations of the Life, Accident & Health Annual Statement (1c) + (2) = (Page 4, Line 26) \$ 521,139,514

NOTES TO FINANCIAL STATEMENTS

Note 36 - Loss/Claim Adjustment Expenses

Reserves for loss/claim adjustment expenses are contained within the claim liability reserve for incurred but not reported claims. For December 31, 2024 and 2023 the loss/claim adjustment expense reserves were \$407,502 and \$348,279, respectively.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES

GENERAL

1.1

Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer?
If yes, complete Schedule Y, Parts 1, 1A, 2 and 3.

Yes [X] No []

1.2

If yes, did the reporting entity register and file with its domiciliary State Insurance Commissioner, Director or Superintendent or with such regulatory official of the state of domicile of the principal insurer in the Holding Company System, a registration statement providing disclosure substantially similar to the standards adopted by the National Association of Insurance Commissioners (NAIC) in its Model Insurance Holding Company System Regulatory Act and model regulations pertaining thereto, or is the reporting entity subject to standards and disclosure requirements substantially similar to those required by such Act and regulations?

Yes [X] No [] N/A []

1.3

State Regulating?

Ohio

1.4

Is the reporting entity publicly traded or a member of a publicly traded group?

Yes [] No [X]

1.5

If the response to 1.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group.

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

State as of what date the latest financial examination of the reporting entity was made or is being made.

12/31/2021

3.2

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

3.3

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

3.4

By what department or departments?
State of Ohio, Department of Insurance

3.5

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]

3.6

Have all of the recommendations within the latest financial examination report been complied with?

Yes [] No [] N/A [X]

4.1

During the period covered by this statement, did any agent, broker, sales representative, non-affiliated sales/service organization or any combination thereof under common control (other than salaried employees of the reporting entity) receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of:
4.11 sales of new business?
4.12 renewals?

Yes [] No [X]
Yes [] No [X]

4.2

During the period covered by this statement, did any sales/service organization owned in whole or in part by the reporting entity or an affiliate, receive credit or commissions for or control a substantial part (more than 20 percent of any major line of business measured on direct premiums) of:
4.21 sales of new business?
4.22 renewals?

Yes [] No [X]
Yes [] No [X]

5.1

Has the reporting entity been a party to a merger or consolidation during the period covered by this statement?
If yes, complete and file the merger history data file with the NAIC.

Yes [] No [X]

5.2

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

6.1

Has the 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]

6.2

If yes, give full information
.....

7.1

Does any foreign (non-United States) person or entity directly or indirectly control 10% or more of the reporting entity?

Yes [] No [X]

7.2

If yes,
7.21 State the percentage of foreign control %
7.22 State the nationality(s) of the foreign person(s) or entity(s); or if the entity is a mutual or reciprocal, the nationality of its manager or attorney-in-fact and identify the type of entity(s) (e.g., individual, corporation, government, manager or attorney-in-fact).

1 Nationality	2 Type of Entity

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

- 8.1

Is the company a subsidiary of a depository institution holding company (DIHC) or a DIHC itself, regulated by the Federal Reserve Board?

Yes [] No [X]
- 8.2

If the response to 8.1 is yes, please identify the name of the DIHC.
- 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 locations (city and state of the main office) of any affiliates regulated by a federal financial 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..
Baring Securities LLC	Charlotte, NC .....	..NO..	..NO..	..NO..	..YES..
Flourish Financial, LLC	New York, NY .....	..NO..	..NO..	..NO..	..YES..
MM Ascend Life Investor Services, LLC	Cincinnati, OH .....	..NO..	..NO..	..NO..	..YES..
IML Distributors, LLC	Springfield, MA .....	..NO..	..NO..	..NO..	..YES..
IML Investment Advisers, LLC	Springfield, MA .....	..NO..	..NO..	..NO..	..YES..
IML Investors Services	Springfield, MA .....	..NO..	..NO..	..NO..	..YES..
IML Strategic Distributors, LLC	Springfield, MA .....	..NO..	..NO..	..NO..	..YES..
MassMutual Private Wealth & Trust, FSB	Windsor, CT .....	..NO..	..YES..	..NO..	..NO..

- 8.5

Is the reporting entity a depository institution holding company with significant insurance operations as defined by the Board of Governors of Federal Reserve System or a subsidiary of the depository institution holding company?

Yes [] No [X]
- 8.6

If response to 8.5 is no, is the reporting entity a company or subsidiary of a company that has otherwise been made subject to the Federal Reserve Board's capital rule?

Yes [] No [X] N/A []
9.

What is the name and address of the independent certified public accountant or accounting firm retained to conduct the annual audit? KPMG LLP, 191 W Nationwide Blvd. Suite 500, Columbus, OH, 43215
- 10.1

Has the insurer been granted any exemptions to the prohibited non-audit services provided by the certified independent public accountant requirements as allowed in Section 7H of the Annual Financial Reporting Model Regulation (Model Audit Rule), or substantially similar state law or regulation?

Yes [] No [X]
- 10.2

If the response to 10.1 is yes, provide information related to this exemption:
- 10.3

Has the insurer been granted any exemptions related to the other requirements of the Annual Financial Reporting Model Regulation as allowed for in Section 18A of the Model Regulation, or substantially similar state law or regulation?

Yes [] No [X]
- 10.4

If the response to 10.3 is yes, provide information related to this exemption:
- 10.5

Has the reporting entity established an Audit Committee in compliance with the domiciliary state insurance laws?

Yes [] No [X] N/A []
- 10.6

If the response to 10.5 is no or n/a, please explain.
Pursuant to Ohio Administrative Code section 3901-1-50 (Model Audit Rule), the Audit Committee of the Board of Directors of Massachusetts Mutual Life Insurance Company, the reporting entity's ultimate parent, serves as its Audit Committee.
11.

What is the name, address and affiliation (officer/employee of the reporting entity or actuary/consultant associated with an actuarial consulting firm) of the individual providing the statement of actuarial opinion/certification?
Isaac Cezar Hall, 191 Rosa Parks Street, Cincinnati, OH, 45201, Officer
- 12.1

Does the reporting entity own any securities of a real estate holding company or otherwise hold real estate indirectly?

Yes [X] No []
- 12.11

Name of real estate holding company ... See 12.2
- 12.12

Number of parcels involved

87
- 12.13

Total book/adjusted carrying value

\$ 1,598,775,563
- 12.2

If yes, provide explanation
The Company held investments in debt securities in 64 parcels, which own or hold real estate indirectly. The statement value at December 31, 2024 of debt was \$1,466,465,404. The Company also held 23 investments in LP and LLC entities that own real estate. These investments had a statement value of \$132,310,159 as of December 31, 2024.
13.

FOR UNITED STATES BRANCHES OF ALIEN REPORTING ENTITIES ONLY:
- 13.1

What changes have been made during the year in the United States manager or the United States trustees of the reporting entity?
Not Applicable.
- 13.2

Does this statement contain all business transacted for the reporting entity through its United States Branch on risks wherever located?

Yes [] No [X]
- 13.3

Have there been any changes made to any of the trust indentures during the year?

Yes [] No [X]
- 13.4

If answer to (13.3) is yes, has the domiciliary or entry state approved the changes?

Yes [] No [] N/A [X]
- 14.1

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.
- 14.11

If the response to 14.1 is No, please explain:
- 14.2

Has the code of ethics for senior managers been amended?

Yes [] No [X]
- 14.21

If the response to 14.2 is yes, provide information related to amendment(s).
- 14.3

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

Yes [] No [X]
- 14.31

If the response to 14.3 is yes, provide the nature of any waiver(s).

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

- 15.1

Is the reporting entity the beneficiary of a Letter of Credit that is unrelated to reinsurance where the issuing or confirming bank is not on the SVO Bank List?

Yes [] No [X]
- 15.2

If the response to 15.1 is yes, indicate the American Bankers Association (ABA) Routing Number and the name of the issuing or confirming bank of the Letter of Credit and describe the circumstances in which the Letter of Credit is triggered.

1 American Bankers Association (ABA) Routing Number	2 Issuing or Confirming Bank Name	3 Circumstances That Can Trigger the Letter of Credit	4 Amount

BOARD OF DIRECTORS

16.

Is the purchase or sale of all investments of the reporting entity passed upon either by the board of directors or a subordinate committee thereof?

Yes [X] No []
17.

Does the reporting entity keep a complete permanent record of the proceedings of its board of directors and all subordinate committees thereof?

Yes [X] No []
18.

Has the reporting entity an established procedure for disclosure to its board of directors or trustees of any material interest or affiliation on the part of any of its officers, directors, trustees or responsible employees that is in conflict or is likely to conflict with the official duties of such person?

Yes [X] No []

FINANCIAL

19.

Has this statement been prepared using a basis of accounting other than Statutory Accounting Principles (e.g., Generally Accepted Accounting Principles)?

Yes [] No [X]
- 20.1

Total amount loaned during the year (inclusive of Separate Accounts, exclusive of policy loans):

20.11 To directors or other officers.....\$

20.12 To stockholders not officers.....\$

20.13 Trustees, supreme or grand (Fraternal Only)\$
- 20.2

Total amount of loans outstanding at the end of year (inclusive of Separate Accounts, exclusive of policy loans):

20.21 To directors or other officers.....\$

20.22 To stockholders not officers.....\$

20.23 Trustees, supreme or grand (Fraternal Only)\$
- 21.1

Were any assets reported in this statement subject to a contractual obligation to transfer to another party without the liability for such obligation being reported in the statement?

Yes [] No [X]
- 21.2

If yes, state the amount thereof at December 31 of the current year:

21.21 Rented from others.....\$

21.22 Borrowed from others.....\$

21.23 Leased from others\$

21.24 Other\$
- 22.1

Does this statement include payments for assessments as described in the Annual Statement Instructions other than guaranty fund or guaranty association assessments?

Yes [] No [X]
- 22.2

If answer is yes:

22.21 Amount paid as losses or risk adjustment \$

22.22 Amount paid as expenses\$

22.23 Other amounts paid\$
- 23.1

Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement?

Yes [X] No []
- 23.2

If yes, indicate any amounts receivable from parent included in the Page 2 amount:

\$ 0
- 24.1

Does the insurer utilize third parties to pay agent commissions in which the amounts advanced by the third parties are not settled in full within 90 days?

Yes [] No [X]
- 24.2

If the response to 24.1 is yes, identify the third-party that pays the agents and whether they are a related party.

Name of Third-Party	Is the Third-Party Agent a Related Party (Yes/No)

INVESTMENT

- 25.01

Were all the stocks, bonds and other securities owned December 31 of current year, over which the reporting entity has exclusive control, in the actual possession of the reporting entity on said date? (other than securities lending programs addressed in 25.03)

Yes [X] No []

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

25.02 If no, give full and complete information, relating thereto

25.03 For securities lending programs, provide a description of the program including value for collateral and amount of loaned securities, and whether collateral is carried on or off-balance sheet. (an alternative is to reference Note 17 where this information is also provided)
N/A

25.04 For the reporting entity's securities lending program, report amount of collateral for conforming programs as outlined in the Risk-Based Capital Instructions. \$

25.05 For the reporting entity's securities lending program, report amount of collateral for other programs. \$

25.06 Does your securities lending program require 102% (domestic securities) and 105% (foreign securities) from the counterparty at the outset of the contract? Yes [] No [] N/A [X]

25.07 Does the reporting entity non-admit when the collateral received from the counterparty falls below 100%? Yes [] No [] N/A [X]

25.08 Does the reporting entity or the reporting entity's securities lending agent utilize the Master Securities lending Agreement (MSLA) to conduct securities lending? Yes [] No [] N/A [X]

25.09 For the reporting entity's securities lending program state the amount of the following as of December 31 of the current year:

25.091 Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2 \$

25.092 Total book/adjusted carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2 \$

25.093 Total payable for securities lending reported on the liability page \$

26.1 Were any of the stocks, bonds or other assets of the reporting entity owned at December 31 of the current year not exclusively under the control of the reporting entity or has the reporting entity sold or transferred any assets subject to a put option contract that is currently in force? (Exclude securities subject to Interrogatory 21.1 and 25.03). Yes [X] No []

26.2 If yes, state the amount thereof at December 31 of the current year:

26.21 Subject to repurchase agreements \$

26.22 Subject to reverse repurchase agreements \$

26.23 Subject to dollar repurchase agreements \$

26.24 Subject to reverse dollar repurchase agreements \$

26.25 Placed under option agreements \$

26.26 Letter stock or securities restricted as to sale -
excluding FHLB Capital Stock \$ 125,169,892

26.27 FHLB Capital Stock \$ 41,525,200

26.28 On deposit with states \$ 7,398,935

26.29 On deposit with other regulatory bodies \$

26.30 Pledged as collateral - excluding collateral pledged to
an FHLB \$ 114,183,225

26.31 Pledged as collateral to FHLB - including assets
backing funding agreements \$ 1,531,129,225

26.32 Other \$

26.3 For category (26.26) provide the following:

1 Nature of Restriction	2 Description	3 Amount
Restricted by contractual agreements	Various	125,169,892

27.1 Does the reporting entity have any hedging transactions reported on Schedule DB? Yes [X] No []

27.2 If yes, has a comprehensive description of the hedging program been made available to the domiciliary state? Yes [X] No [] N/A []
If no, attach a description with this statement.

LINES 27.3 through 27.5: FOR LIFE/FRATERNAL REPORTING ENTITIES ONLY:

27.3 Does the reporting entity utilize derivatives to hedge variable annuity guarantees subject to fluctuations as a result of interest rate sensitivity? Yes [] No [X]

27.4 If the response to 27.3 is YES, does the reporting entity utilize:

27.41 Special accounting provision of SSAP No. 108 Yes [] No []

27.42 Permitted accounting practice Yes [] No []

27.43 Other accounting guidance Yes [] No []

27.5 By responding YES to 27.41 regarding utilizing the special accounting provisions of SSAP No. 108, the reporting entity attests to the following: Yes [] No []

- The reporting entity has obtained explicit approval from the domiciliary state.
- Hedging strategy subject to the special accounting provisions is consistent with the requirements of VM-21.
- Actuarial certification has been obtained which indicates that the hedging strategy is incorporated within the establishment of VM-21 reserves and provides the impact of the hedging strategy within the Actuarial Guideline Conditional Tail Expectation Amount.
- Financial Officer Certification has been obtained which indicates that the hedging strategy meets the definition of a Clearly Defined Hedging Strategy within VM-21 and that the Clearly Defined Hedging Strategy is the hedging strategy being used by the company in its actual day-to-day risk mitigation efforts.

28.1 Were any preferred stocks or bonds owned as of December 31 of the current year mandatorily convertible into equity, or, at the option of the issuer, convertible into equity? Yes [X] No []

28.2 If yes, state the amount thereof at December 31 of the current year. \$ 17,145,238

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

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

1 Name of Custodian(s)	2 Custodian's Address
Bank of New York Mellon	1 Wall Street, New York, NY 10286
State Street Bank and Trust Company	JAB2NWN. Quincy, MA 02171

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

29.02 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)

29.03 Have there been any changes, including name changes, in the custodian(s) identified in 29.01 during the current year?..... Yes [] No [X]

29.04 If yes, give full and complete information relating thereto:

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

29.05 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. This includes both primary and sub-advisors. 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
ARES Capital Management LLC	U.....
Ares Management LLC	U.....
Barings LLC	A.....
Centerbridge Martello Advisors, LLC	U.....
Fractal Investments LLC	U.....
Western Asset Management Company	U.....
Angelo, Gordon & Co., L.P	U.....

29.0597 For those firms/individuals listed in the table for Question 29.05, do any firms/individuals unaffiliated with the reporting entity (i.e., designated with a "U") manage more than 10% of the reporting entity's invested assets?..... Yes [] No [X]

29.0598 For firms/individuals unaffiliated with the reporting entity (i.e., designated with a "U") listed in the table for Question 29.05, does the total assets under management aggregate to more than 50% of the reporting entity's invested assets?..... Yes [] No [X]

29.06 For those firms or individuals listed in the table for 29.05 with an affiliation code of "A" (affiliated) or "U" (unaffiliated), provide the information for the table below.

1	2	3	4	5
Central Registration Depository Number	Name of Firm or Individual	Legal Entity Identifier (LEI)	Registered With	Investment Management Agreement (IMA) Filed
130074	ARES Capital Management LLC	549300R4YHRZ8JUZU385	SEC	NO.....
130074	Ares Management LLC	549300JA9GMPFTSVQQ05	SEC	NO.....
106006	Barings LLC	ANDKRHQKPRRG4Q2KLR05	SEC	DS.....
131940	Angelo, Gordon & Co., L.P.	XXJ808RONB9FETFPGB63	SEC	NO.....
157359	Centerbridge Martello Advisors, LLC	549300F5X7LPP05D3544	SEC	NO.....
311767	Fractal Investments LLC – Pending Mandate	984500D14JFD006CBC96	SEC	NO.....
110441	Western Asset Management Company	549300C5A561UXU1CN46	SEC	NO.....

30.1 Does the reporting entity have any diversified mutual funds reported in Schedule D - Part 2 (diversified according to the Securities and Exchange Commission (SEC) in the Investment Company Act of 1940 [Section 5(b)(1)])? Yes [] No [X]

30.2 If yes, complete the following schedule:

1 CUSIP #	2 Name of Mutual Fund	3 Book/Adjusted Carrying Value
30.2999 - Total		0

30.3 For each mutual fund listed in the table above, complete the following schedule:

1	2	3	4
Name of Mutual Fund (from above table)	Name of Significant Holding of the Mutual Fund	Amount of Mutual Fund's Book/Adjusted Carrying Value Attributable to the Holding	Date of Valuation

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

31. Provide the following information for all short-term and long-term bonds and all preferred stocks. Do not substitute amortized value or statement value for fair value.

	1	2	3
	Statement (Admitted) Value	Fair Value	Excess of Statement over Fair Value (-), or Fair Value over Statement (+)
31.1 Bonds	40,639,361,903	39,224,555,311	(1,414,806,592)
31.2 Preferred stocks	297,875,760	353,127,509	55,251,749
31.3 Totals	40,937,237,663	39,577,682,820	(1,359,554,843)

31.4 Describe the sources or methods utilized in determining the fair values:
The Fair Value of securities is obtained using quoted market prices when available. If not available, estimated fair value is based on values provided by other third-party organizations. If values provided by other third-party organizations are unavailable, fair value is estimated using internal models by discounting future cash flows using observable current market rates applicable to yield, credit quality and maturity of the investment or using quoted market values for comparable investments. Internal inputs used in the determination of fair value include estimated prepayment speeds, default rates, discount rates and collateral values, among others. Structure Characteristics and results of cash flow priority are also considered.

32.1 Was the rate used to calculate fair value determined by a broker or custodian for any of the securities in Schedule D? Yes [X] No []

32.2 If the answer to 32.1 is yes, does the reporting entity have a copy of the broker's or custodian's pricing policy (hard copy or electronic copy) for all brokers or custodians used as a pricing source? Yes [X] No []

32.3 If the answer to 32.2 is no, describe the reporting entity's process for determining a reliable pricing source for purposes of disclosure of fair value for Schedule D:

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

33.2 If no, list exceptions:
At 12/31/2024, 13 issues for 9 issuers did not meet the filing requirements of the Purposes and Procedures Manual. The majority of these issues currently lack one or more of the following: Valid cusip/PPN, audited financials and/or executed legal documentation. Exceptions totaled \$54,452,852 or 0.14% of all assets.

34. By self-designating 5GI securities, the reporting entity is certifying the following elements of each self-designated 5GI security:
a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available.
b. Issuer or obligor is current on all contracted interest and principal payments.
c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal.
Has the reporting entity self-designated 5GI securities? Yes [X] No []

35. By self-designating PLGI securities, the reporting entity is certifying its compliance with the requirements as specified in the Purposes and Procedures Manual of the NAIC Investment Analysis Office (P&P Manual) for private letter rating (PLR) securities and the following elements of each self-designated PLGI security:
a. The security was either:
i. issued prior to January 1, 2018 (which is exempt from PLR filing requirements pursuant to the P&P Manual), or
ii. issued from January 1, 2018 to December 31, 2021 and subject to a confidentiality agreement executed prior to January 1, 2022 which confidentiality agreement remains in force, for which an insurance company cannot provide a copy of a private letter rating rationale report to the SVO due to confidentiality or other contractual reasons ("waived submission PLR securities").
b. The reporting entity is holding capital commensurate with the NAIC Designation and NAIC Designation Category reported for the security.
c. The NAIC Designation and NAIC Designation Category were 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, dated during the financial statement year, held by the insurer and available for examination by state insurance regulators.
d. Other than for waived submission PLR securities, defined above, on or after January 1, 2024 for any PLR securities issued on or after January 1, 2022, if the reporting entity is not permitted to share this private credit rating or the private rating letter rationale report of the PL security with the SVO, it certifies that it is reporting it as an NAIC 5.B GI and may not assign any other self-designation.
Has the reporting entity self-designated PLGI to securities, all of which meet the above requirement and as specified in the P&P Manual? Yes [] No [X]

36. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund:
a. The shares were purchased prior to January 1, 2019.
b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior to January 1, 2019.
d. The fund only or predominantly holds bonds in its portfolio.
e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO.
f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed.
Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? Yes [] No [X]

37. By rolling/renewing short-term or cash equivalent investments with continued reporting on Schedule DA, Part 1 or Schedule E Part 2 (identified through a code (%) in those investment schedules), the reporting entity is certifying to the following:
a. The investment is a liquid asset that can be terminated by the reporting entity on the current maturity date.
b. If the investment is with a nonrelated party or nonaffiliate, then it reflects an arms-length transaction with renewal completed at the discretion of all involved parties.
c. If the investment is with a related party or affiliate, then the reporting entity has completed robust re-underwriting of the transaction for which documentation is available for regulator review.
d. Short-term and cash equivalent investments that have been renewed/rolled from the prior period that do not meet the criteria in 37.a - 37.c are reported as long-term investments.
Has the reporting entity rolled/renewed short-term or cash equivalent investments in accordance with these criteria? Yes [] No [X] N/A []

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

- 38.1

Does the reporting entity directly hold cryptocurrencies?

Yes [] No [X]
- 38.2

If the response to 38.1 is yes, on what schedule are they reported?
.....
- 39.1

Does the reporting entity directly or indirectly accept cryptocurrencies as payments for premiums on policies?

Yes [] No [X]
- 39.2

If the response to 39.1 is yes, are the cryptocurrencies held directly or are they immediately converted to U.S. dollars?
39.21 Held directly Yes [] No []
39.22 Immediately converted to U.S. dollars Yes [] No []
- 39.3

If the response to 38.1 or 39.1 is yes, list all cryptocurrencies accepted for payments of premiums or that are held directly.

1	2	3
Name of Cryptocurrency	Immediately Converted to USD, Directly Held, or Both	Accepted for Payment of Premiums

OTHER

- 40.1

Amount of payments to trade associations, service organizations and statistical or rating bureaus, if any?

\$ 5,309,709
- 40.2

List the name of the organization and the amount paid if any such payment represented 25% or more of the total payments to trade associations, service organizations, and statistical or rating bureaus during the period covered by this statement.

1	2
Name	Amount Paid
S&P DOW JONES INDICES .....	..... 4,996,194
- 41.1

Amount of payments for legal expenses, if any?

\$ 2,047,297
- 41.2

List the name of the firm and the amount paid if any such payment represented 25% or more of the total payments for legal expenses during the period covered by this statement.

1	2
Name	Amount Paid
DEBEVOISE & PLIMPTON LLP .....	..... 783,111
- 42.1

Amount of payments for expenditures in connection with matters before legislative bodies, officers, or departments of government, if any?

\$ 21,383
- 42.2

List the name of the firm and the amount paid if any such payment represented 25% or more of the total payment expenditures in connection with matters before legislative bodies, officers, or departments of government during the period covered by this statement.

1	2
Name	Amount Paid
Bricker & Eckler .....	..... 20,766

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

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

Life, Accident and Health Companies/Fraternal Benefit Societies:

1.1 Does the reporting entity have any direct Medicare Supplement Insurance in force? Yes ☒ No ☐

1.2 If yes, indicate premium earned on U.S. business only.\$ 1,590,240

1.3 What portion of Item (1.2) is not reported on the Medicare Supplement Insurance Experience Exhibit?\$

1.31 Reason for excluding:

1.4 Indicate amount of earned premium attributable to Canadian and/or Other Alien not included in Item (1.2) above.\$

1.5 Indicate total incurred claims on all Medicare Supplement insurance.\$ 1,141,167

1.6 Individual policies:

Most current three years:

1.61 Total premium earned\$0

1.62 Total incurred claims\$0

1.63 Number of covered lives 0

All years prior to most current three years:

1.64 Total premium earned\$ 1,590,240

1.65 Total incurred claims\$ 1,141,167

1.66 Number of covered lives 287

1.7 Group policies:

Most current three years:

1.71 Total premium earned\$0

1.72 Total incurred claims\$0

1.73 Number of covered lives 0

All years prior to most current three years:

1.74 Total premium earned\$0

1.75 Total incurred claims\$0

1.76 Number of covered lives 0

2. Health Test:

1

Current Year

2

Prior Year

2.1 Premium Numerator 8,551,179,527 8,506,770,768

2.2 Premium Denominator 0.000 0.000

2.3 Premium Ratio (2.1/2.2) 36,704,288,063 30,377,437,663

2.4 Reserve Numerator 0.000 0.000

2.5 Reserve Denominator 0.000 0.000

2.6 Reserve Ratio (2.4/2.5) 0.000 0.000

3.1 Does this reporting entity have Separate Accounts? Yes ☒ No ☐

3.2 If yes, has a Separate Accounts statement been filed with this Department? Yes ☒ No ☐ N/A ☐

3.3 What portion of capital and surplus funds of the reporting entity covered by assets in the Separate Accounts statement, is not currently distributable from the Separate Accounts to the general account for use by the general account?\$

3.4 State the authority under which Separate Accounts are maintained:
State of Ohio, Department of Insurance

3.5 Was any of the reporting entity's Separate Accounts business reinsured as of December 31? Yes ☐ No ☒

3.6 Has the reporting entity assumed by reinsurance any Separate Accounts business as of December 31? Yes ☐ No ☒

3.7 If the reporting entity has assumed Separate Accounts business, how much, if any, reinsurance assumed receivable for reinsurance of Separate Accounts reserve expense allowances is included as a negative amount in the liability for "Transfers to Separate Accounts due or accrued (net)"?\$

4. For reporting entities having sold annuities to another insurer where the insurer purchasing the annuities has obtained a release of liability from the claimant (payee) as the result of the purchase of an annuity from the reporting entity only:

4.1 Amount of loss reserves established by these annuities during the current year:\$

4.2 List the name and location of the insurance company purchasing the annuities and the statement value on the purchase date of the annuities.

1	2
P&C Insurance Company And Location	Statement Value on Purchase Date of Annuities (i.e., Present Value)

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ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

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

- 5.1 Do you act as a custodian for health savings accounts? Yes [] No [X]
- 5.2 If yes, please provide the amount of custodial funds held as of the reporting date. \$
- 5.3 Do you act as an administrator for health savings accounts? Yes [] No [X]
- 5.4 If yes, please provide the balance of funds administered as of the reporting date. \$
- 6.1 Are any of the captive affiliates reported on Schedule S, Part 3, authorized reinsurers? Yes [] No [] N/A [X]
- 6.2 If the answer to 6.1 is yes, please provide the following:

1 Company Name	2 NAIC Company Code	3 Domiciliary Jurisdiction	4 Reserve Credit	Assets Supporting Reserve Credit		
				5 Letters of Credit	6 Trust Agreements	7 Other
.....

7. Provide the following for individual ordinary life insurance* policies (U.S. business only) for the current year (prior to reinsurance assumed or ceded).
- 7.1 Direct Premium Written \$ 18,313,525
- 7.2 Total Incurred Claims \$ 27,029,799
- 7.3 Number of Covered Lives 22,636

*Ordinary Life Insurance Includes
Term (whether full underwriting, limited underwriting, jet issue, "short form app")
Whole Life (whether full underwriting, limited underwriting, jet issue, "short form app")
Variable Life (with or without secondary guarantee)
Universal Life (with or without secondary guarantee)
Variable Universal Life (with or without secondary guarantee)

8. Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states? Yes [X] No []
- 8.1 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 []
9. Reporting entities admitting net negative (disallowed) interest maintenance reserve (IMR) attest to the following:
- a. Fixed income investments generating IMR losses comply with the reporting entity's documented investment or liability management policies.
- b. IMR losses for fixed income related derivatives are all in accordance with prudent and documented risk management procedures, in accordance with a reporting entity's derivative use plans and reflect symmetry with historical treatment in which unrealized derivative gains were reversed to IMR and amortized in lieu of being recognized as realized gains upon derivative termination.
- c. Any deviation to (a) was either because of a temporary and transitory timing issue or related to a specific event, such as a reinsurance transaction, that mechanically made the cause of IMR losses not reflective of reinvestment activities.
- d. Asset sales that were generating admitted negative IMR were not compelled by liquidity pressures (e.g., to fund significant cash outflows including, but not limited to excess withdrawals and collateral calls).
- Is the reporting entity admitting net negative (disallowed) IMR in accordance with these criteria? Yes [X] No [] N/A []

10. Provide the current-year amounts at risk for the following categories.
- Individual and Industrial Life

Amount at Risk

10.01 Modified Coinsurance Assumed Reserves \$

10.02 Modified Coinsurance Ceded Reserves \$ 446,615
- Individual and Industrial Life Policies With Pricing Flexibility

Amount at Risk

10.03 Net Amount (Direct + Assumed - Ceded) in Force \$ 446,129,000

10.04 Exhibit 5 Life Reserves (Direct + Assumed – Ceded) \$ 36,947,650

10.05 Separate Account Exhibit 3 Life Reserves (Direct + Assumed – Ceded) \$

10.06 Net Modified Coinsurance Reserves (Assumed – Ceded) \$

10.07 Life Reserves (10.04 + 10.05 + 10.06) \$ 36,947,650

10.08 Life Net Amount at Risk (10.03 - 10.07) \$ 409,181,350
- Individual and Industrial Term Life Policies Without Pricing Flexibility

Amount at Risk

10.09 Net Amount (Direct + Assumed - Ceded) in Force \$ 738,418,000

10.10 Exhibit 5 Life Reserves (Direct + Assumed – Ceded) \$ 57,133,911

10.11 Separate Account Exhibit 3 Life Reserves (Direct + Assumed – Ceded) \$

10.12 Net Modified Coinsurance Reserves (Assumed – Ceded) \$

10.13 Life Reserves (10.10 + 10.11 + 10.12) \$ 57,133,911

10.14 Life Net Amount at Risk (10.09 - 10.13) \$ 681,284,089

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

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

Group and Credit Life (Excluding FEGLI/SGLI)		Amount at Risk
10.15	Modified Coinsurance Assumed Reserves	\$
10.16	Modified Coinsurance Ceded Reserves	\$
Group and Credit Term Life (Excluding FEGLI/SGLI) with Remaining Rate Terms 36 Months and Under		Amount of Risk
10.17	Net Amount (Direct + Assumed - Ceded) in Force	\$
10.18	Exhibit 5 Life Reserves (Direct + Assumed – Ceded)	\$
10.19	Separate Account Exhibit 3 Life Reserves (Direct + Assumed – Ceded)	\$
10.20	Net Modified Coinsurance Reserves (Assumed – Ceded)	\$
10.21	Life Reserves (10.18 + 10.19 + 10.20)	\$0
10.22	Life Net Amount at Risk (10.17 - 10.21)	\$0
Group and Credit Term Life (Excluding FEGLI/SGLI) with Remaining Rate Terms Over 36 Months		Amount of Risk
10.23	Net Amount (Direct + Assumed - Ceded) in Force	\$
10.24	Exhibit 5 Life Reserves (Direct + Assumed – Ceded)	\$
10.25	Separate Account Exhibit 3 Life Reserves (Direct + Assumed – Ceded)	\$
10.26	Net Modified Coinsurance Reserves (Assumed – Ceded)	\$
10.27	Life Reserves (10.24 + 10.25 + 10.26)	\$0
10.28	Life Net Amount at Risk (10.23 - 10.27)	\$0
Group and Credit Permanent Life (Excluding FEGLI/SGLI) with Pricing Flexibility		Amount of Risk
10.29	Net Amount (Direct + Assumed - Ceded) in Force	\$
10.30	Exhibit 5 Life Reserves (Direct + Assumed – Ceded)	\$
10.31	Separate Account Exhibit 3 Life Reserves (Direct + Assumed – Ceded)	\$
10.32	Net Modified Coinsurance Reserves (Assumed – Ceded)	\$
10.33	Life Reserves (10.30 + 10.31 + 10.32)	\$0
10.34	Life Net Amount at Risk (10.29 - 10.33)	\$0

Life, Accident and Health Companies Only:

- 11.1 Are personnel or facilities of this reporting entity used by another entity or entities or are personnel or facilities of another entity or entities used by this reporting entity (except for activities such as administration of jointly underwritten group contracts and joint mortality or morbidity studies)? Yes [X] No []
- 11.2 Net reimbursement of such expenses between reporting entities:

11.21 Paid\$
11.22 Received.....\$9,694,879
- 12.1 Does the reporting entity write any guaranteed interest contracts? Yes [] No [X]
- 12.2 If yes, what amount pertaining to these lines is included in:

12.21 Page 3, Line 1\$
12.22 Page 4, Line 1\$
13. For stock reporting entities only:
- 13.1 Total amount paid in by stockholders as surplus funds since organization of the reporting entity: \$.....2,148,400,344
14. Total dividends paid stockholders since organization of the reporting entity:

14.11 Cash\$2,756,667,601
14.12 Stock\$500,000,000
- 15.1 Does the reporting entity reinsure any Workers' Compensation Carve-Out business defined as: Yes [] No [X]
Reinsurance (including retrocessional reinsurance) assumed by life and health insurers of medical, wage loss and death benefits of the occupational illness and accident exposures, but not the employers liability exposures, of business originally written as workers' compensation insurance.
- 15.2 If yes, has the reporting entity completed the Workers' Compensation Carve-Out Supplement to the Annual Statement? Yes [] No []
- 15.3 If 15.1 is yes, the amounts of earned premiums and claims incurred in this statement are:

	1	2	3
	Reinsurance	Reinsurance	Net
	Assumed	Ceded	Retained
15.31 Earned premium0
15.32 Paid claims0
15.33 Claim liability and reserve (beginning of year)0
15.34 Claim liability and reserve (end of year)0
15.35 Incurred claims .....	.....0	.....0	.....0

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

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

15.4 If reinsurance assumed included amounts with attachment points below \$1,000,000, the distribution of the amounts reported in Lines 15.31 and 15.34 for Column (1) are:

	Attachment Point	1 Earned Premium	2 Claim Liability and Reserve
15.41	<\$25,000	.....	.....
15.42	\$25,000 - 99,999	.....	.....
15.43	\$100,000 - 249,999	.....	.....
15.44	\$250,000 - 999,999	.....	.....
15.45	\$1,000,000 or more	.....	.....

15.5 What portion of earned premium reported in 15.31, Column 1 was assumed from pools?\$

Fraternal Benefit Societies Only:

16. Is the reporting entity organized and conducted on the lodge system, with ritualistic form of work and representative form of government? Yes [] No []
17. How often are meetings of the subordinate branches required to be held?
.....
18. How are the subordinate branches represented in the supreme or governing body?
.....
19. What is the basis of representation in the governing body?
.....
- 20.1 How often are regular meetings of the governing body held?
.....
- 20.2 When was the last regular meeting of the governing body held?
- 20.3 When and where will the next regular or special meeting of the governing body be held?
.....
- 20.4 How many members of the governing body attended the last regular meeting?
- 20.5 How many of the same were delegates of the subordinate branches?
21. How are the expenses of the governing body defrayed?
.....
22. When and by whom are the officers and directors elected?
.....
23. What are the qualifications for membership?
.....
24. What are the limiting ages for admission?
.....
25. What is the minimum and maximum insurance that may be issued on any one life?
.....
26. Is a medical examination required before issuing benefit certificates to applicants? Yes [] No []
27. Are applicants admitted to membership without filing an application with and becoming a member of a local branch by ballot and initiation? Yes [] No []
- 28.1 Are notices of the payments required sent to the members? Yes [] No [] N/A []
- 28.2 If yes, do the notices state the purpose for which the money is to be used? Yes [] No []
29. What proportion of first and subsequent year's payments may be used for management expenses?
29.11 First Year %
29.12 Subsequent Years %
- 30.1 Is any part of the mortuary, disability, emergency or reserve fund, or the accretions from or payments for the same, used for expenses? Yes [] No []
- 30.2 If so, what amount and for what purpose? \$
- 31.1 Does the reporting entity pay an old age disability benefit? Yes [] No []
- 31.2 If yes, at what age does the benefit commence?
- 32.1 Has the constitution or have the laws of the reporting entity been amended during the year? Yes [] No []
- 32.2 If yes, when?
.....
33. Have you filed with this Department all forms of benefit certificates issued, a copy of the constitution and all of the laws, rules and regulations in force at the present time? Yes [] No []
- 34.1 State whether all or a portion of the regular insurance contributions were waived during the current year under premium-paying certificates on account of meeting attained age or membership requirements? Yes [] No []
- 34.2 If so, was an additional reserve included in Exhibit 5? Yes [] No [] N/A []
- 34.3 If yes, explain
.....
- 35.1 Has the reporting entity reinsured, amalgamated with, or absorbed any company, order, society, or association during the year? Yes [] No []
- 35.2 If yes, was there any contract agreement, or understanding, written or oral, expressed or implied, by means of which any officer, director, trustee, or any other person, or firm, corporation, society or association, received or is to receive any fee, commission, emolument, or compensation of any nature whatsoever in connection with, on an account of such reinsurance, amalgamation, absorption, or transfer of membership or funds? Yes [] No [] N/A []
36. Has any present or former officer, director, trustee, incorporator, or any other persons, or any firm, corporation, society or association, any claims of any nature whatsoever against this reporting entity, which is not included in the liabilities on Page 3 of this statement? Yes [] No []
- 37.1 Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus? Yes [] No []
- 37.2 If yes, what is the date of the original lien and the outstanding balance of the liens that remain against the surplus?
.....

Date	Outstanding Liens amount
.....
.....

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

FIVE-YEAR HISTORICAL DATA

Show amounts in whole dollars only, no cents; show percentages to one decimal place, i.e. 17.6.
\$000 omitted for amounts of life insurance

	1 2024	2 2023	3 2022	4 2021	5 2020
Life Insurance in Force (Exhibit of Life Insurance)					
1. Ordinary - whole life and endowment (Line 34, Col. 4)	963,547	1,018,803	1,135,104	1,187,116	1,249,351
2. Ordinary - term (Line 21, Col. 4, less Line 34, Col. 4)	2,596,407	3,055,426	3,956,634	5,303,192	6,051,774
3. Credit life (Line 21, Col. 6)	0	0	0	0	0
4. Group, excluding FEGLI/SGLI (Line 21, Col. 9 less Lines 43 & 44, Col. 4)	11,628	12,695	13,781	14,989	18,878
5. Industrial (Line 21, Col. 2)	0	0	0	0	0
6. FEGLI/SGLI (Lines 43 & 44, Col. 4)	0	0	0	0	0
7. Total (Line 21, Col. 10)	3,571,582	4,086,924	5,105,519	6,505,297	7,320,003
7.1 Total in force for which VM-20 deterministic/stochastic reserves are calculated					
New Business Issued (Exhibit of Life Insurance)					
8. Ordinary - whole life and endowment (Line 34, Col. 2)	4,775	1,826	1,410	1,845	2,866
9. Ordinary - term (Line 2, Col. 4, less Line 34, Col. 2)	145	150	210	60	15
10. Credit life (Line 2, Col. 6)	0	0	0	0	0
11. Group (Line 2, Col. 9)	0	0	0	0	0
12. Industrial (Line 2, Col. 2)	0	0	0	0	0
13. Total (Line 2, Col. 10)	4,920	1,976	1,620	1,905	2,881
Premium Income - Lines of Business (Exhibit 1 - Part 1)					
14. Individual life (Line 20.4, Col. 2)	11,444,317	11,235,099	13,012,249	13,965,790	14,129,112
15. Group life (Line 20.4, Col. 3)	0	0			(312)
16. Individual annuities (Line 20.4, Col. 4)	8,534,851,039	8,489,608,439	(6,710,610,755)	4,874,033,517	(3,246,437,764)
17. Group annuities (Line 20.4, Col. 5)	2,028,320	2,931,904	(503,851,224)	138,756,519	508,009,549
18. Accident & Health (Line 20.4, Col. 6)	2,855,851	2,995,326	3,191,778	235,738	8,259,943
19. Other lines of business (Line 20.4, Col. 8)	0	0		0	0
20. Total	8,551,179,527	8,506,770,768	(7,198,257,952)	5,026,991,564	(2,716,039,472)
Balance Sheet (Pages 2 & 3)					
21. Total admitted assets excluding Separate Accounts business (Page 2, Line 26, Col. 3)	52,396,083,567	46,545,444,243	42,779,342,665	38,381,318,191	35,776,746,245
22. Total liabilities excluding Separate Accounts business (Page 3, Line 26)	48,169,807,274	43,494,493,640	39,946,759,827	35,503,197,569	32,879,554,457
23. Aggregate life reserves (Page 3, Line 1)	36,488,387,785	30,159,722,538	24,259,873,748	33,231,720,248	30,127,660,056
23.1 Excess VM-20 deterministic/stochastic reserve over NPR related to Line 7.1					
24. Aggregate A & H reserves (Page 3, Line 2)	54,926,316	52,438,219	50,510,234	58,728,683	55,007,419
25. Deposit-type contract funds (Page 3, Line 3)	786,618,885	787,970,274	779,823,617	592,074,541	1,532,959,003
26. Asset valuation reserve (Page 3, Line 24.01)	636,335,984	528,429,311	577,063,642	504,145,594	410,701,293
27. Capital (Page 3, Lines 29 and 30)	1,675,000	1,507,500	1,507,500	1,507,500	1,507,500
28. Surplus (Page 3, Line 37)	4,224,601,293	3,049,443,103	2,831,075,338	2,876,613,122	2,895,684,288
Cash Flow (Page 5)					
29. Net Cash from Operations (Line 11)	7,624,861,934	6,817,527,144	5,762,623,553	3,851,829,839	(3,459,277,339)
Risk-Based Capital Analysis					
30. Total adjusted capital	4,879,109,425	3,598,032,125	3,428,458,288	3,399,038,172	3,323,734,643
31. Authorized control level risk - based capital	538,319,956	401,339,454	385,342,819	422,121,598	405,644,746
Percentage Distribution of Cash, Cash Equivalents and Invested Assets (Page 2, Col. 3) (Line No. /Page 2, Line 12, Col. 3) x 100.0					
32. Bonds (Line 1)	73.8	78.2	80.0	83.5	79.3
33. Stocks (Lines 2.1 and 2.2)	2.1	2.1	2.1	2.8	3.3
34. Mortgage loans on real estate(Lines 3.1 and 3.2)	10.1	9.5	7.4	5.8	4.5
35. Real estate (Lines 4.1, 4.2 and 4.3)	0.0	0.0	0.0	0.0	0.2
36. Cash, cash equivalents and short-term investments (Line 5)	6.7	4.9	4.8	2.7	5.9
37. Contract loans (Line 6)	0.1	0.1	0.1	0.2	0.2
38. Derivatives (Page 2, Line 7)	1.7	1.7	2.1	1.9	2.6
39. Other invested assets (Line 8)	5.5	3.1	3.3	2.9	4.0
40. Receivables for securities (Line 9)	0.0	0.4	0.3	0.2	0.0
41. Securities lending reinvested collateral assets (Line 10)	0.0	0.0	0.0	0.0	0.0
42. Aggregate write-ins for invested assets (Line 11)	0.0	0.0	0.0	0.0	0.0
43. Cash, cash equivalents and invested assets (Line 12)	100.0	100.0	100.0	100.0	100.0
Investments in Parent, Subsidiaries and Affiliates					
44. Affiliated bonds (Schedule D Summary, Line 12, Col. 1)	969,594,122	744,638,614	520,760,496		0
45. Affiliated preferred stocks (Schedule D Summary, Line 18, Col. 1)	0		0	0	0
46. Affiliated common stocks (Schedule D Summary Line 24, Col. 1),	482,056,721	445,210,536	401,901,977	384,058,681	352,465,015
47. Affiliated short-term investments (subtotal included in Schedule DA Verification, Col. 5, Line 10)	0	0	0	0	0
48. Affiliated mortgage loans on real estate					
49. All other affiliated	1,538,740,720	237,992,753	152,544,036		0
50. Total of above Lines 44 to 49	2,990,391,563	1,427,841,903	1,075,206,509	384,058,681	352,465,015
51. Total Investment in Parent included in Lines 44 to 49 above					

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

FIVE-YEAR HISTORICAL DATA

(Continued)

	1 2024	2 2023	3 2022	4 2021	5 2020
Total Nonadmitted and Admitted Assets					
52. Total nonadmitted assets (Page 2, Line 28, Col. 2).....	129,019,994	54,705,054	31,902,708	27,247,217	6,532,837
53. Total admitted assets (Page 2, Line 28, Col. 3)	53,380,247,018	46,988,763,810	42,883,041,659	38,448,901,775	35,797,152,601
Investment Data					
54. Net investment income (Exhibit of Net Investment Income)	2,648,248,352	1,918,445,895	1,018,987,195	1,950,977,865	1,908,775,201
55. Realized capital gains (losses) (Page 4, Line 34, Column 1)	(74,862,069)	(153,692,165)	(32,534,189)	118,746,759	(218,592,712)
56. Unrealized capital gains (losses) (Page 4, Line 38, Column 1)	382,459,752	165,317,385	(200,664,475)	25,495,993	66,352,275
57. Total of above Lines 54, 55 and 56	2,955,846,035	1,930,071,115	785,788,531	2,095,220,617	1,756,534,764
Benefits and Reserve Increases (Page 6)					
58. Total contract/certificate benefits - life (Lines 10, 11, 12, 13, 14 and 15, Col. 1 minus Lines 10, 11,12, 13, 14 and 15, Cols. 6, 7 and 8)	3,581,250,471	3,178,553,182	1,962,500,163	3,104,931,642	2,948,216,184
59. Total contract/certificate benefits - A & H (Lines 13 & 14, Col. 6)	4,964,082	4,296,617	3,804,204	4,181,392	3,826,900
60. Increase in life reserves - other than group and annuities (Line 19, Col. 2)	(3,367,654)	(15,400,608)	(26,774,113)	(6,802,237)	2,312,245
61. Increase in A & H reserves (Line 19, Col. 6)	2,488,097	1,927,985	(8,218,456)	3,721,264	9,123,912
62. Dividends to policyholders and refunds to members (Line 30, Col. 1)	10,851	8,940	10,069	12,787	10,653
Operating Percentages					
63. Insurance expense percent (Page 6, Col. 1, Lines 21, 22 & 23, less Line 6)/(Page 6, Col. 1, Line 1 plus Exhibit 7, Col. 2, Line 2) x 100.0	8.0	5.8	(0.4)	9.6	(12.0)
64. Lapse percent (ordinary only) [(Exhibit of Life Insurance, Col. 4, Lines 14 & 15) / 1/2 (Exhibit of Life Insurance, Col. 4, Lines 1 & 21)] x 100.0	11.2	20.8	23.5	10.6	13.5
65. A & H loss percent (Schedule H, Part 1, Lines 5 and 6, Col. 2)	248.0	195.6	173.2	147.5	118.4
66. A & H cost containment percent (Schedule H, Pt. 1, Line 4, Col. 2)	0.0	0.0	0.0	0.0	0.0
67. A & H expense percent excluding cost containment expenses (Schedule H, Pt. 1, Line 10, Col. 2)	17.8	17.8	17.6	21.7	38.1
A & H Claim Reserve Adequacy					
68. Incurred losses on prior years' claims - comprehensive group health (Sch. H, Part 3, Line 3.1 Col. 3)	0			XXX	XXX
69. Prior years' claim liability and reserve - comprehensive group health (Sch. H, Part 3, Line 3.2 Col. 3)	0	0		XXX	XXX
70. Incurred losses on prior years' claims-health other than comprehensive group health (Sch. H, Part 3, Line 3.1 Col. 1 less Col. 3)	14,110,792	12,791,329	12,381,135	XXX	XXX
71. Prior years' claim liability and reserve-health other than comprehensive group health (Sch. H, Part 3, Line 3.2 Col. 1 less Col. 3)	14,121,809	12,696,171	11,888,136	XXX	XXX
Net Gains From Operations After Dividends to Policyholders, Refunds to Members, Federal Income Taxes and Before Realized Capital Gains or (Losses) by Lines of Business (Page 6.x, Line 33)					
72. Individual industrial life (Page 6.1, Col. 2)	0	0	0		
73. Individual whole life (Page 6.1, Col. 3)	(2,374,237)	(1,483,126)	(1,726,556)	(149,466)	3,964,617
74. Individual term life (Page 6.1, Col. 4)	(1,881,682)	(9,699,791)	479,737	1,080,208	(2,907,204)
75. Individual indexed life (Page 6.1, Col. 5)	0	0	0		
76. Individual universal life (Page 6.1, Col. 6)	145,196	340,341	(1,463,909)	187,115	(2,780,375)
77. Individual universal life with secondary guarantees (Page 6.1, Col. 7)	0	0	0		
78. Individual variable life (Page 6.1, Col. 8)	0	0	0	0	0
79. Individual variable universal life (Page 6.1, Col. 9)	0	0	0	0	0
80. Individual credit life (Page 6.1, Col. 10)	0	0	0	0	0
81. Individual other life (Page 6.1, Col. 11)	0	0	0	0	0
82. Individual YRT mortality risk only (Page 6.1, Col. 12)	0	0	0	0	0
83. Group whole life (Page 6.2, Col. 2)	(328,932)	(192,740)	(263,683)	(276,770)	(237,284)
84. Group term life (Page 6.2, Col. 3)	0	0	0	0	0
85. Group universal life (Page 6.2, Col. 4)	0	0	0	0	0
86. Group variable life (Page 6.2, Col. 5)	0	0	0	0	0
87. Group variable universal life (Page 6.2, Col. 6)	0	0	0	0	0
88. Group credit life (Page 6.2, Col. 7)	0	0	0	0	0
89. Group other life (Page 6.2, Col. 8)	0	0	0	0	0
90. Group YRT mortality risk only (Page 6.2, Col. 9)	0	0	0	0	0
91. Individual deferred fixed annuities (Page 6.3, Col. 2)	119,655,778	92,767,318	(391,125,675)	96,499,787	100,487,830
92. Individual deferred indexed annuities (Page 6.3, Col. 3)	(295,353,229)	69,024,099	577,799,744	98,620,302	282,908,376
93. Individual deferred variable annuities with guarantees (Page 6.3, Col. 4)	0	0	0		
94. Individual deferred variable annuities without guarantees (Page 6.3, Col. 5)	0	0	0		
95. Individual life contingent payout (immediate and annuitization) (Page 6.3, Col. 6)	(17,893,893)	(26,654,191)	(16,784,496)	1,010,863	1,255,019
96. Individual other annuities (Page 6.3, Col. 7)	0	0	0		
97. Group deferred fixed annuities (Page 6.4, Col. 2)	(7,909,758)	(15,549,451)	(5,581,913)	12,868,649	11,723,076
98. Group deferred indexed annuities (Page 6.4, Col. 3)	0	0	0	0	0
99. Group deferred variable annuities with guarantees (Page 6.4, Col. 4)	0	0	0		
100. Group deferred variable annuities without guarantees (Page 6.4, Col. 5)	0	0	0		
101. Group life contingent payout (immediate and annuitization) (Page 6.4, Col. 6)	27,758,108	41,016,343	22,333,512	4,787,588	11,810,113
102. Group other annuities (Page 6.4, Col. 7)	0	0	0		
103. A & H-comprehensive individual (Page 6.5, Col. 2)	0	0	0	0	0
104. A & H-comprehensive group (Page 6.5, Col. 3)	0	0	0	159,596	(159,596)
105. A & H-Medicare supplement (Page 6.5, Col. 4)	0	0	0		
106. A & H-vision only (Page 6.5, Col. 5)	0	0	0	0	0
107. A & H-dental only (Page 6.5, Col. 6)	0	0	0		
108. A & H-Federal employees health benefits plan (Page 6.5, Col. 7)	0	0	0		
109. A & H-Title XVIII Medicare (Page 6.5, Col. 8)	0	0	0		
110. A & H-Title XIX Medicaid (Page 6.5, Col. 9)	0	0	0		
111. A & H-credit (Page 6.5, Col. 10)	0	0	0		
112. A & H-disability income (Page 6.5, Col. 11)	0	0	0		
113. A & H-long-term care (Page 6.5, Col. 12)	(865,818)	(974,307)	6,894,334	(4,500,794)	(3,378,180)
114. A & H-other (Page 6.5, Col. 13)	0	0	0		
115. Aggregate of all other lines of business (Page 6, Col. 8)	0	0	0		
116. Fraternal (Page 6, Col. 7)	0	0	0		
117. Total (Page 6, Col. 1)	(179,048,467)	148,594,495	190,561,095	210,267,078	402,686,392

NOTE: If a party to a merger, have the two most recent years of this exhibit been restated due to a merger in compliance with the disclosure requirements of SSAP No. 3, Accounting Changes and Correction of Errors? Yes [] No [X]

If no, please explain: The Company was not a party to a merger.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT OF LIFE INSURANCE

(\$000 Omitted for Amounts of Life Insurance)

	Industrial		Ordinary		Credit Life (Group and Individual)		Group			10 Total Amount of Insurance
	1	2	3	4	5	6	Number of		9	
	Number of Policies	Amount of Insurance	Number of Policies	Amount of Insurance	Number of Individual Policies and Group Certificates	Amount of Insurance	7 Policies	8 Certificates	Amount of Insurance	
1. In force end of prior year	0	0	43,705	4,074,229	0	0	14	2,190	12,695	4,086,924
2. Issued during year		0	25	4,920		0			0	4,920
3. Reinsurance assumed										0
4. Revived during year			3	117						117
5. Increased during year (net)				98					(6)	92
6. Subtotals, Lines 2 to 5	0	0	28	5,135	0	0	0	0	(6)	5,129
7. Additions by dividends during year	XXX		XXX		XXX		XXX	XXX		0
8. Aggregate write-ins for increases	0	0	0	0	0	0	0	1	0	0
9. Totals (Lines 1 and 6 to 8)	0	0	43,733	4,079,364	0	0	14	2,191	12,689	4,092,053
Deductions during year:										
10. Death			1,428	29,541			XXX	138	730	30,271
11. Maturity			44	157			XXX	4	19	176
12. Disability							XXX			0
13. Expiry			188	3,661						3,661
14. Surrender			394	39,869				7	16	39,885
15. Lapse			1,054	385,831			5	9	296	386,127
16. Conversion			11	4,911			XXX	XXX	XXX	4,911
17. Decreased (net)				3,072						3,072
18. Reinsurance										0
19. Aggregate write-ins for decreases	0	0	1,043	52,368	0	0	0	0	0	52,368
20. Totals (Lines 10 to 19)	0	0		519,410	0	0	5	158	1,061	520,471
21. In force end of year (b) (Line 9 minus Line 20)	0	0	39,571	3,559,954	0	0	9	2,033	11,628	3,571,582
22. Reinsurance ceded end of year	XXX		XXX	1,946,262	XXX		XXX	XXX	9,115	1,955,377
23. Line 21 minus Line 22	XXX	0	XXX	1,613,692	XXX	(a) 0	XXX	XXX	2,513	1,616,205
DETAILS OF WRITE-INS										
0801. Correction for prior year error								1		0
0802.										
0803.										
0898. Summary of remaining write-ins for Line 8 from overflow page	0	0	0	0	0	0	0	0	0	0
0899. TOTALS (Lines 0801 through 0803 plus 0898) (Line 8 above)	0	0	0	0	0	0	0	1	0	0
1901. Correction for prior year error			1,043	52,368						52,368
1902.										
1903.										
1998. Summary of remaining write-ins for Line 19 from overflow page	0	0	0	0	0	0	0	0	0	0
1999. TOTALS (Lines 1901 through 1903 plus 1998) (Line 19 above)	0	0	1,043	52,368	0	0	0	0	0	52,368

Life, Accident and Health Companies Only:

(a) Group \$; Individual \$

Fraternal Benefit Societies Only:

(b) Paid-up insurance included in the final totals of Line 21 (including additions to certificates) number of certificates , Amount \$

Additional accidental death benefits included in life certificates were in amount \$, Does the society collect any contributions from members for general expenses of the society under fully paid-up certificates? Yes [] No []

If not, how are such expenses met?

.....

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT OF LIFE INSURANCE

(\$000 Omitted for Amounts of Life Insurance) (Continued)
ADDITIONAL INFORMATION ON INSURANCE IN FORCE END OF YEAR

	Industrial		Ordinary	
	1 Number of Policies	2 Amount of Insurance	3 Number of Policies	4 Amount of Insurance
24. Additions by dividends	XXX		XXX	
25. Other paid-up insurance			7,224	27,908
26. Debit ordinary insurance	XXX	XXX		

ADDITIONAL INFORMATION ON ORDINARY INSURANCE

Term Insurance Excluding Extended Term Insurance	Issued During Year (Included in Line 2)		In Force End of Year (Included in Line 21)	
	1 Number of Policies	2 Amount of Insurance	3 Number of Policies	4 Amount of Insurance
27. Term policies - decreasing			124	1,423
28. Term policies - other			10,027	2,295,647
29. Other term insurance - decreasing	XXX		XXX	32
30. Other term insurance	XXX	145	XXX	291,052
31. Totals (Lines 27 to 30)	0	145	10,151	2,588,154
Reconciliation to Lines 2 and 21:				
32. Term additions	XXX		XXX	
33. Totals, extended term insurance	XXX	XXX	1,304	8,254
34. Totals, whole life and endowment	25	4,775	28,116	963,547
35. Totals (Lines 31 to 34)	25	4,920	39,571	3,559,955

CLASSIFICATION OF AMOUNT OF INSURANCE BY PARTICIPATING STATUS

	Issued During Year (Included in Line 2)		In Force End of Year (Included in Line 21)	
	1 Non-Participating	2 Participating	3 Non-Participating	4 Participating
36. Industrial				
37. Ordinary	4,920		3,545,031	14,923
38. Credit Life (Group and Individual)				
39. Group			11,628	
40. Totals (Lines 36 to 39)	4,920	0	3,556,659	14,923

ADDITIONAL INFORMATION ON CREDIT LIFE AND GROUP INSURANCE

	Credit Life		Group	
	1 Number of Individual Policies and Group Certificates	2 Amount of Insurance	3 Number of Certificates	4 Amount of Insurance
41. Amount of insurance included in Line 2 ceded to other companies	XXX		XXX	
42. Number in force end of year if the number under shared groups is counted on a pro-rata basis		XXX	36	XXX
43. Federal Employees' Group Life Insurance included in Line 21				
44. Servicemen's Group Life Insurance included in Line 21				
45. Group Permanent Insurance included in Line 21			1,997	10,167

ADDITIONAL ACCIDENTAL DEATH BENEFITS

46. Amount of additional accidental death benefits in force end of year under ordinary policies	58,662
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BASIS OF CALCULATION OF ORDINARY TERM INSURANCE

47. State basis of calculation of (47.1) decreasing term insurance contained in Family Income, Mortgage Protection, etc., policies and riders and of (47.2) term insurance on wife and children under Family, Parent and Children, etc., policies and riders included above.	
47.1 None	
47.2 Actual for spouse, \$1,000 per unit for children	

POLICIES WITH DISABILITY PROVISIONS

Disability Provisions	Industrial		Ordinary		Credit		Group	
	1 Number of Policies	2 Amount of Insurance	3 Number of Policies	4 Amount of Insurance	5 Number of Policies	6 Amount of Insurance	7 Number of Certificates	8 Amount of Insurance
48. Waiver of Premium			1,173	52,621				
49. Disability Income			45	5,885				
50. Extended Benefits			XXX	XXX				
51. Other								
52. Total	0	(a) 0	1,218	(a) 58,506	0	(a) 0	0	(a) 0

(a) See the Annual Audited Financial Reports section of the annual statement instructions

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

EXHIBIT OF NUMBER OF POLICIES, CONTRACTS, CERTIFICATES, INCOME PAYABLE AND ACCOUNT VALUES IN FORCE FOR SUPPLEMENTARY CONTRACTS, ANNUITIES, ACCIDENT & HEALTH AND OTHER POLICIES

SUPPLEMENTARY CONTRACTS				
	Ordinary		Group	
	1 Involving Life Contingencies	2 Not Involving Life Contingencies	3 Involving Life Contingencies	4 Not Involving Life Contingencies
1. In force end of prior year	39	17	0	0
2. Issued during year				
3. Reinsurance assumed	1			
4. Increased during year (net)				
5. Total (Lines 1 to 4)	40	17	0	0
Deductions during year:				
6. Decreased (net)	9	3		
7. Reinsurance ceded				
8. Totals (Lines 6 and 7)	9	3	0	0
9. In force end of year (line 5 minus line 8)	31	14	0	0
10. Amount on deposit	40,233	(a) 21,264		(a)
11. Income now payable	15	9		
12. Amount of income payable	(a) 60,541	(a) 57,887	(a)	(a)

ANNUITIES				
	Ordinary		Group	
	1 Immediate	2 Deferred	3 Contracts	4 Certificates
1. In force end of prior year	13,636	351,179	274	47,862
2. Issued during year	1,976	53,136	0	0
3. Reinsurance assumed	0	0	0	0
4. Increased during year (net)	0	0	0	0
5. Totals (Lines 1 to 4)	15,612	404,315	274	47,862
Deductions during year:				
6. Decreased (net)	2,218	50,855	0	2,439
7. Reinsurance ceded	0	0	0	0
8. Totals (Lines 6 and 7)	2,218	50,855	0	2,439
9. In force end of year (line 5 minus line 8)	13,394	353,460	274	45,423
Income now payable:				
10. Amount of income payable	(a) 185,434,325	XXX	XXX	(a) 74,535,492
Deferred fully paid:				
11. Account balance	XXX	(a) 29,423,256,590	XXX	(a) 83,014,148
Deferred not fully paid:				
12. Account balance	XXX	(a) 15,626,696,613	XXX	(a) 674,964,304

ACCIDENT AND HEALTH INSURANCE						
	Group		Credit		Other	
	1 Certificates	2 Premiums in Force	3 Policies	4 Premiums in Force	5 Policies	6 Premiums in Force
1. In force end of prior year	9		0		1,253	2,991,955
2. Issued during year						
3. Reinsurance assumed						
4. Increased during year (net)		XXX		XXX		XXX
5. Totals (Lines 1 to 4)	9	XXX	0	XXX	1,253	XXX
Deductions during year:						
6. Conversions		XXX	XXX	XXX	XXX	XXX
7. Decreased (net)		XXX		XXX	65	XXX
8. Reinsurance ceded		XXX		XXX		XXX
9. Totals (Lines 6 to 8)	0	XXX	0	XXX	65	XXX
10. In force end of year (line 5 minus line 9)	9	(a) 10,853	0	(a)	1,188	(a) 2,808,695

DEPOSIT FUNDS AND DIVIDEND ACCUMULATIONS		
	1	2
	Deposit Funds Contracts	Dividend Accumulations Contracts
1. In force end of prior year	1,860	3,157
2. Issued during year		
3. Reinsurance assumed	12	
4. Increased during year (net)		
5. Totals (Lines 1 to 4)	1,872	3,157
Deductions During Year:		
6. Decreased (net)		1
7. Reinsurance ceded		
8. Totals (Lines 6 and 7)	0	1
9. In force end of year (line 5 minus line 8)	1,872	3,156
10. Amount of account balance	(a) 1,891,020	(a) 5,176,425

(a) See the Annual Audited Financial Reports section of the annual statement instructions.

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS (b)

Allocated by States and Territories									
States, Etc.			1	Direct Business Only					
				Life Contracts		4	5	6	7
				2	3				
			Active Status (a)	Life Insurance Premiums	Annuity Considerations	Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	Other Considerations	Total Columns 2 through 5 (b)	Deposit-Type Contracts
1.	Alabama	AL	L	206,879	141,041,071	29,950	0	141,277,900	0
2.	Alaska	AK	L	5,793	6,180,534		0	6,186,327	0
3.	Arizona	AZ	L	422,895	174,165,034	20,762	0	174,608,691	313,245
4.	Arkansas	AR	L	141,338	68,434,353	1,348	0	68,577,039	372,084
5.	California	CA	L	4,097,021	1,059,641,349	19,192	0	1,063,757,562	1,287,352
6.	Colorado	CO	L	193,113	116,989,811	77,874	0	117,260,798	0
7.	Connecticut	CT	L	285,737	171,470,570	2,760	0	171,759,067	624,578
8.	Delaware	DE	L	39,289	26,548,030		0	26,587,319	0
9.	District of Columbia	DC	L	21,738	6,465,345		0	6,487,083	0
10.	Florida	FL	L	1,436,292	859,065,779	258,906	0	860,760,977	1,594,937
11.	Georgia	GA	L	624,005	272,988,506	81,902	0	273,694,413	278,987
12.	Hawaii	HI	L	205,615	79,807,527		0	80,013,142	76,086
13.	Idaho	ID	L	71,020	46,732,507	8,483	0	46,812,010	0
14.	Illinois	IL	L	509,790	313,112,833	124,850	0	313,747,473	587,628
15.	Indiana	IN	L	139,928	205,032,100	110,708	0	205,282,736	187,869
16.	Iowa	IA	L	119,760	64,725,233	95,287	0	64,940,280	182,069
17.	Kansas	KS	L	90,812	47,261,907	122,751	0	47,475,470	0
18.	Kentucky	KY	L	141,832	73,292,240	122,908	0	73,556,980	0
19.	Louisiana	LA	L	198,596	152,073,708	4,531	0	152,276,835	0
20.	Maine	ME	L	65,624	35,859,195	6,770	0	35,931,589	0
21.	Maryland	MD	L	427,741	229,399,064	(3,895)	0	229,822,910	60,690
22.	Massachusetts	MA	L	389,465	180,861,267		0	181,250,732	1,660,278
23.	Michigan	MI	L	219,361	330,065,622	3,258	0	330,288,241	692,458
24.	Minnesota	MN	L	386,141	141,310,165	5,252	0	141,701,558	45,578
25.	Mississippi	MS	L	103,550	42,606,557	2,932	0	42,713,039	0
26.	Missouri	MO	L	262,727	463,526,282	158,655	0	463,947,664	773,519
27.	Montana	MT	L	6,444	6,669,996	0	0	6,676,440	0
28.	Nebraska	NE	L	111,206	34,840,145	71,669	0	35,023,020	0
29.	Nevada	NV	L	245,746	69,667,801	14,809	0	69,928,356	0
30.	New Hampshire	NH	L	52,308	43,746,620	59,917	0	43,858,845	1,358,044
31.	New Jersey	NJ	L	467,458	389,492,288	6,460	0	389,966,206	2,519,990
32.	New Mexico	NM	L	298,725	25,894,100		0	26,192,825	11,035
33.	New York	NY	N	99,148	36,383,321	12,596	0	36,495,065	0
34.	North Carolina	NC	L	910,744	373,437,619	1,251,917	0	375,600,280	551,725
35.	North Dakota	ND	L	45,364	19,874,647		0	19,920,011	0
36.	Ohio	OH	L	323,916	385,262,456	46,042	0	385,632,414	887,090
37.	Oklahoma	OK	L	472,651	43,543,127	83,964	0	44,099,742	51,969
38.	Oregon	OR	L	86,507	80,785,522	77,527	0	80,949,556	216,207
39.	Pennsylvania	PA	L	1,019,607	517,721,401	16,371	0	518,757,379	2,306,380
40.	Rhode Island	RI	L	43,519	66,896,721	4,040	0	66,944,280	0
41.	South Carolina	SC	L	320,341	251,976,618	204,593	0	252,501,552	784,286
42.	South Dakota	SD	L	53,178	18,027,655	25	0	18,080,858	0
43.	Tennessee	TN	L	342,657	237,996,344	175,690	0	238,514,691	71,724
44.	Texas	TX	L	1,959,827	429,454,791	101,073	0	431,515,691	110,345
45.	Utah	UT	L	87,142	61,593,419	38,571	0	61,719,132	0
46.	Vermont	VT	L	33,136	15,051,431	20,367	0	15,104,934	0
47.	Virginia	VA	L	688,688	240,633,977	212,517	0	241,535,182	0
48.	Washington	WA	L	299,532	185,717,029	167,840	0	186,184,401	400,334
49.	West Virginia	WV	L	106,948	39,795,096	6,176	0	39,908,220	93,248
50.	Wisconsin	WI	L	209,893	179,533,135	243,250	0	179,986,278	287,822
51.	Wyoming	WY	L	20,728	7,212,142		0	7,232,870	0
52.	American Samoa	AS	N	0	0		0	0	0
53.	Guam	GU	N	72,056	0		0	72,056	0
54.	Puerto Rico	PR	L	478	36,000		0	36,478	0
55.	U.S. Virgin Islands	VI	N	1,269	0		0	1,269	0
56.	Northern Mariana Islands	MP	N	0	0		0	0	0
57.	Canada	CAN	N	0	0		0	0	0
58.	Aggregate Other Alien	OT	XXX	82,356	363,478	2,960	0	448,794	0
59.	Subtotal	XXX		19,267,634	9,070,263,468	4,073,558	0	9,093,604,660	18,387,557
90.	Reporting entity contributions for employee benefits plans	XXX						0	
91.	Dividends or refunds applied to purchase paid-up additions and annuities	XXX						0	
92.	Dividends or refunds applied to shorten endowment or premium paying period	XXX						0	
93.	Premium or annuity considerations waived under disability or other contract provisions	XXX		372,103		342,062		714,165	
94.	Aggregate or other amounts not allocable by State	XXX		0	0	0	0	0	0
95.	Totals (Direct Business)	XXX		19,639,737	9,070,263,468	4,415,620	0	9,094,318,825	18,387,557
96.	Plus reinsurance assumed	XXX		2,635,345	178,890	2,851,129		5,665,364	
97.	Totals (All Business)	XXX		22,275,082	9,070,442,358	7,266,749	0	9,099,984,189	18,387,557
98.	Less reinsurance ceded	XXX		9,381,814	533,562,998	4,415,620		547,360,432	30,884
99.	Totals (All Business) less Reinsurance Ceded	XXX		12,893,268	8,536,879,360	2,851,129	0	8,552,623,757	18,356,673
DETAILS OF WRITE-INS									
58001.	Other Alien	XXX		82,356	363,478	2,960	0	448,794	0
58002.	.....	XXX							
58003.	.....	XXX							
58998.	Summary of remaining write-ins for Line 58 from overflow page	XXX		0	0	0	0	0	0
58999.	Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)	XXX		82,356	363,478	2,960	0	448,794	0
9401.	.....	XXX							
9402.	.....	XXX							
9403.	.....	XXX							
9498.	Summary of remaining write-ins for Line 94 from overflow page	XXX		0	0	0	0	0	0
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line 94 above)	XXX		0	0	0	0	0	0

(a) Active Status Counts:

1. L - Licensed or Chartered - Licensed insurance carrier or domiciled RRG.....	51	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.....	6
3. E - Eligible - Reporting entities eligible or approved to write surplus lines in the state.....	0		

(b) Explanation of basis of allocation by states, etc., of premiums and annuity considerations

Annuity considerations from group policies covering fewer than 500 members are allocated based on the situs of the contract. All other premiums and annuity considerations are allocated based on the residence of the policyholders.

(c) Column 4 should balance with Exhibit 1, Lines 6.4, 10.4 and 16.4, Col. 6, or with Schedule H, Part 1, Line 1, indicate which: Exhibit 1, Lines 6.4, 10.4, and 16.4, Col. 6.....

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

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

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY	04-1590850	65935	Massachusetts
Direct & Indirect Owned Subsidiaries:			
C.M. Life Insurance Company	06-1041383	93432	Connecticut
MML Bay State Life Insurance Company	43-0581430	70416	Connecticut
CML Special Situations Investor LLC	None		Delaware
CM Life Mortgage Lending LLC	None		Delaware
CML Mezzanine Investor III, LLC	None		Delaware
CML Global Capabilities LLC	None		Delaware
MM Global Capabilities I LLC	None		Delaware
MassMutual Global Business Services India LLP	None		India
MM Global Capabilities (Netherlands) B.V.	None		Netherlands
MassMutual Global Business Services Romania S.R.L.	None		Romania
MM Global Capabilities II LLC	None		Delaware
MM Global Capabilities III LLC	None		Delaware
MM/Barings Multifamily TEBS 2020 LLC	None		Delaware
Berkshire Way LLC	04-1590850		Delaware
MML Special Situations Investor LLC	None		Delaware
Timberland Forest Holding LLC	47-5322979		Delaware
Lyme Adirondack Forest Company, LLC	None		Delaware
Lyme Adirondack Timberlands I, LLC	None		Delaware
Lyme Adirondack Timberlands II, LLC	None		Delaware
Lyme Adirondack Timber Sales, LLC	None		Delaware
MSP-SC, LLC	04-1590850		Delaware
Insurance Road LLC	04-1590850		Delaware
MassMutual Trad Private Equity LLC	04-1590850		Delaware
MassMutual Intellectual Property LLC	04-1590850		Delaware
Trad Investments I LLC	None		Delaware
ITPS Holding LLC	None		Delaware
HITPS LLC	None		Delaware
EM Opportunities LLC	None		Delaware
MassMutual MCAM Insurance Company, Inc.	None		Vermont
MassMutual Ventures US IV GP, LLC*	None		Delaware
MassMutual Ventures US IV, L.P.	None		Delaware
MassMutual Ventures US IV, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, LLC	None		Delaware
MassMutual Ventures Europe/APAC I GP, L.P.	None		Cayman Islands
MassMutual Ventures Europe/APAC I L.P.	None		Cayman Islands
MassMutual Ventures Southeast Asia III LLC	None		Delaware
MMV Digital I LLC	None		Cayman Islands

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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
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
Counterpointe Investment Management 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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
JCP Direct Lending CLO 2023-1 LLC	None		Delaware
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 Credit Partners Europe Limited	None		United Kingdom
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-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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
JF CEI Holdings 1 LLC	None		Delaware
JF CEI Holdings 2 LLC	None		Delaware
Apex Credit Holdings LLC	None		Delaware
JFIN CLO 2012 Ltd.	None		Cayman Islands
JFIN CLO 2013 Ltd.	None		Cayman Islands
JFIN CLO 2014 Ltd.	None		Cayman Islands
JFIN CLO 2014-II Ltd.	None		Cayman Islands
JFIN CLO 2015 Ltd.	None		Cayman Islands
JFIN CLO 2015-II Ltd.	None		Cayman Islands
JFIN CLO 2016 Ltd.	None		Cayman Islands
JFIN CLO 2017 Ltd.	None		Cayman Islands
JFIN CLO 2017 II Ltd.	None		Cayman Islands
Tomorrow Parent, LLC	None		Delaware
Custom Ecology Holdco, LLC	None		Delaware
Glidepath Holdings Inc.	86-2294635		Delaware
MassMutual Ascend Life Insurance Company	13-1935920	63312	Ohio
AAG Insurance Agency, LLC	31-1422717		Kentucky
Annuity Investors Life Insurance Company	31-1021738	93661	Ohio
MM Ascend Life Investor Services, LLC	31-1395344		Ohio
MM Ascend Mortgage Lending LLC	None		Delaware
MM Vine Street LLC	None		Delaware
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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
MMAF Equipment Finance LLC 2024-A	None		Delaware
MML Management Corporation	04-2443240		Massachusetts
MassMutual International Holding MSC, Inc.	04-3548444		Massachusetts
MassMutual Holding MSC, Inc.	04-3341767		Massachusetts
MML CM LLC	None		Delaware
Blueprint Income LLC	None		New York
Flourish 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
MassMutual Private Wealth & Trust, 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

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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
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
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
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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings Australia Property Partners Pty Ltd	None		Australia
Barings Australia Structured Finance Holdings Pty Ltd	None		Australia
Barings Australia Structured Finance Pty Ltd	None		Australia
Gryphon Capital Partners Pty Ltd	None		Australia
Gryphon Capital Management Pty Ltd	None		Australia
Gryphon Capital Investments Pty Ltd	None		Australia
Barings Finance LLC	80-0875475		Delaware
BCF Europe Funding Limited	None		Ireland
BCF Senior Funding I LLC	None		Delaware
BCF Senior Funding I Designated Activity Company	None		Ireland
Barings Real Estate Acquisitions LLC	None		Delaware
Barings Securities LLC	04-3238351		Delaware
Barings Guernsey Limited	98-0437588		Guernsey
Barings Europe Limited	None		United Kingdom
Barings Asset Management Spain SL	None		Spain
Baring France SAS	None		France
Baring International Fund Managers (Ireland) Limited	None		Ireland
Barings GmbH	None		Germany
Barings Italy S.r.l.	None		Italy
Barings Sweden AB	None		Sweden
Barings Netherlands B.V.	None		Netherlands
Barings (U.K.) Limited	98-0432153		United Kingdom
Barings Switzerland Sàrl	None		Switzerland
Baring Asset Management Limited	98-0241935		United Kingdom
Barings European Direct Lending 1 GP LLP	None		United Kingdom
Baring International Investment Limited	98-0457328		United Kingdom
Baring Fund Managers Limited	98-0457586		United Kingdom
BCGSS 2 GP LLP	None		United Kingdom
Baring Investment Services Limited	98-0457578		United Kingdom
Barings Core Fund Feeder I GP S.à.r.l.	None		Luxembourg
Barings Investment Fund (LUX) GP S.à r.l.	None		Luxembourg
Barings BME GP S.à.r.l.	None		United Kingdom
Barings GPC GP S.à.r.l.	None		Luxembourg
Barings European Core Property Fund GP Sà.r.l	None		United Kingdom
Barings Umbrella Fund (LUX) GP S.à.r.l.	None		Luxembourg
GPLF4(S) GP S.à r. l	None		Luxembourg
PREIF Holdings Limited Partnership	None		United Kingdom
BMC Holdings DE LLC	None		Delaware
Barings Real Estate Advisers Inc.	04-3238351		Delaware
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

*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

52.7

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
BAI GP, LLC	None		Delaware
Baring Asset-Based Income Fund (US) GP, LLC	None		Delaware
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 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 Direct Lending GP Ltd.	None		Cayman Islands
Barings Direct Investments LLC	None		Delaware
Barings Diversified Residential Fund GP LLC	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 SBIC II GP, LLC	None		Delaware
Barings SEM GP LLC	None		Delaware
BMT RE Debt Fund GP LLC	None		Delaware
Barings Small Business Fund LLC	84-5063008		Delaware
Barings TYIDF2 Rated Feeder GP LLC	None		Delaware
Barings TYIDF2 Rated Feeder, L.P.	None		Delaware
Barings Active Passive Equity Direct EAFE LLC	None		Delaware
BCLF GP LLC	None		Delaware
Benton Street Advisors, Inc.	98-0536233		Cayman Islands
BHOVI Incentive LLC	None		Delaware
BIG Real Estate Incentive I LLC	None		Delaware
BIG Real Estate Incentive II LLC	None		Delaware
BRECS VII GP LLC	None		Delaware
BREDIF GP LLC	None		Delaware

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

52.8

	<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
Yunfeng Financial Group Limited	None		Hong Kong
MassMutual External Benefits Group LLC	27-3576835		Delaware
Stillings Street LLC	None		Delaware
5301 Wisconsin Avenue Associates, LLC	None		District of Columbia
5301 Wisconsin Avenue GP, LLC	None		Delaware
Other Affiliates & Funds:			
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
12-18 West 55th Street Predevelopment, LLC	None		Delaware
21 West 86th LLC	None		Delaware
Barings Diversified Residential 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

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

	<u>Federal Tax ID</u>	<u>NAIC Co Code</u>	<u>State of Domicile</u>
Barings-MM Revolver Fund LP*	None		Delaware
Barings U.S. High Yield Fund	None		Delaware
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 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
Barings CLO 2018-IV	None		Cayman Islands
Barings CLO 2019-II	98-1473665		Cayman Islands
Barings CLO 2019-III	None		Cayman Islands
Barings CLO 2019-IV	None		Cayman Islands
Barings CLO 2020-I	None		Cayman Islands
Barings CLO 2020-III	None		Cayman Islands
Barings CLO 2020-IV	None		Cayman Islands
Barings CLO 2021-I	None		Cayman Islands
Barings CLO 2021-II	None		Cayman Islands
Barings CLO 2021-III	None		Cayman Islands
Barings CLO 2024-II	None		Cayman Islands
Babson Euro CLO 2015-I BV	None		Netherlands
Barings Euro CLO 2019-I	3603726OH		Ireland
Barings Euro CLO 2019-II	None		Ireland
Barings Euro CLO 2020-I DAC	None		Ireland
Barings Euro CLO 2021-I DAC	3715576VH		Ireland
Barings Euro CLO 2021-II DAC	3750378QH		Ireland
Barings Euro CLO 2021-III DAC	None		Ireland
Barings Euro CLO 2023-II DAC	None		Ireland
Barings Global Energy Infrastructure Fund I LP	98-1332384		Cayman Islands

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

	Federal Tax ID	NAIC Co Code	State of Domicile
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 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 Euro Middle Market CLO 2024-1 DAC	None		Ireland
Barings Middle Market Loan Partners 1	None		Cayman Islands
Barings Middle Market Loan Partners 2	None		Cayman Islands
Barings Loan Partners 5	None		Cayman Islands
Barings Target Yield Infrastructure Debt Fund	98-1567942		Luxembourg
Barings CLO Investment Partners LP	81-0841854		Delaware
Barings Euro Value Add II (BREEVA II)*	None		Luxembourg
Barings Transportation Fund LP*	87-1262754		Delaware
Braemar Energy Ventures I, L.P.*	None		Delaware
Barings European Core Property Fund SCSp*	None		Luxembourg
Barings European Private Loan Fund III A	46-5001122		Luxembourg
Benchmark 2018-B2 Mortgage Trust	38-4059932		New York
Benchmark 2018-B4	None		New York
Benchmark 2018-B8	38-4096530		New York
Barings Core Property Fund LP	20-5578089		Delaware
DPI Acres Capital SPV LLC	04-1590850		Delaware
DPI-ARES Mortgage Lending SPV, LLC	04-1590850		Delaware
E2E Affordable Housing Debt Fund LLC	None		Delaware
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
MM MD1 Station Member LLC*	04-1590850		Delaware
Barings Capital Solutions Perpetual Fund (DE) LP	92-3857084		Delaware

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

	Federal Tax ID	NAIC Co Code	State of Domicile
Barings Capital Solutions Perpetual Fund (LUX)	None		Luxembourg
Barings Income Navigator Fund	None		Ireland
Barings Capital Solutions Perpetual Fund (CA), LP	None		Cayman Islands
Barings Global Investment Grade Credit Fund	None		Ireland
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 Sedona Vortex Investor LLC	None		Delaware
MM Subline Borrower LLC	04-1590850		Delaware
MM The Gilman Member LLC	None		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
Trailside 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
Invesco Ltd	None		Bermuda
Barings Affiliates & Funds:			
Babson Capital Loan Strategies Master Fund LP	None		Cayman Islands
Barings China Aggregate Bond Private Securities Investment Fund	None		Peoples Republic of China
Barings Global High Yield Fund	47-3790192		Massachusetts
Great Lakes II LLC*	71-1018134		Delaware
Wood Creek Venture Fund LLC	04-1590850		Delaware
Barings Real Estate Affiliates & Funds:			
Barings California Mortgage Fund IV	None		California
Barings Umbrella Fund LUX SCSp SICAV RAIF*	None		Luxembourg
Calgary Railway Holding LLC	82-2285211		Delaware
Cornbrook PRS Holdings LLC	82-3307907		Delaware
Cornerstone California Mortgage Fund I LLC	95-4207717		California
Cornerstone California Mortgage Fund II LLC	95-4207717		California
Cornerstone California Mortgage Fund III LLC	95-4207717		California
Cornerstone Fort Pierce Development, LLC*	56-2630592		Delaware
Cornerstone Permanent Mortgage Fund 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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
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
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
BRAVA5 MM Investor LLC	None		Delaware
BRAVA5 MALIC Investor LLC	None		Delaware
MM Ironhead Commerce Center Member LLC	None		Delaware
MM 425 Montgomery Member LLC	None		Delaware
MM Century Square LLC	None		Delaware
MM Horizon Savannah Member III LLC	None		Delaware
MM Liberty Centre LLC	None		Delaware
MM National Self-Storage Program Member LLC	04-1590850		Delaware
MM Liberty Centre Member LLC	04-1590850		Delaware
MM Century Square Member LLC	04-1590850		Delaware
MM 1400 E 4th Street Member LLC	04-1590850		Delaware
MM 1370 AVE OF AM LLC	04-1590850		Delaware
One Harbor Shore LLC*	80-0948028		Delaware
Paco France Logistics LLC	04-1590850		Delaware
Salomon Brothers Commercial Mortgage Trust 2001-MM	None		Delaware
Three PW Office Holding LLC	81-5273574		Delaware
Trailside MM Member II LLC	04-1590850		Delaware
Unna, Dortmund Holding LLC	82-3250684		Delaware
Washington Gateway Apartments Venture LLC*	45-5401109		Delaware
West 37th Street Hotel LLC*	88-3861481		Delaware
MassMutual Premier Funds:			
MassMutual Premier Strategic Emerging Markets Fund	26-3229251		Massachusetts
MassMutual Select Funds:			
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

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

	Federal Tax ID	NAIC Co Code	State of Domicile
MassMutual Select T. Rowe Price Retirement 2040 Fund	82-3451779		Massachusetts
MassMutual Select T. Rowe Price Retirement 2045 Fund	82-3472295		Massachusetts
MassMutual Select T. Rowe Price Retirement 2050 Fund	82-3481715		Massachusetts
MassMutual Select T. Rowe Price Retirement 2055 Fund	82-3502011		Massachusetts
MassMutual Select T. Rowe Price Retirement 2060 Fund	82-3525148		Massachusetts
MassMutual Select T. Rowe Price Retirement Balanced Fund	82-3533944		Massachusetts
MML Series Investment Funds:			
MML Series International Equity Fund	46-4257056		Massachusetts
MML Series Investment Funds II:			
MML Series II Dynamic Bond Fund	47-3529636		Massachusetts
MML Series II Equity Rotation Fund	47-3544629		Massachusetts
MassMutual RetireSMART Funds:			
MassMutual RetireSMART 2035 Fund	27-1933380		Massachusetts
MassMutual RetireSMART 2045 Fund	27-1932769		Massachusetts
MassMutual RetireSMART 2055 Fund	46-3289207		Massachusetts
MassMutual RetireSMART 2060 Fund	47-5326235		Massachusetts
MassMutual 20/80 Allocation Fund	45-1618155		Massachusetts
MML SER INVT 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

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ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Assets Line 11

	Current Year			Prior Year
	1	2	3	4
	Assets	Nonadmitted Assets	Net Admitted Assets (Cols. 1 - 2)	Net Admitted Assets
1104.			0	
1105.			0	
1197. Summary of remaining write-ins for Line 11 from overflow page	0	0	0	0

Additional Write-ins for Assets Line 25

	Current Year			Prior Year
	1	2	3	4
	Assets	Nonadmitted Assets	Net Admitted Assets (Cols. 1 - 2)	Net Admitted Assets
2504.			0	
2505. Accounts receivable	25,309,759	7,031,905	18,277,854	6,495,920
2597. Summary of remaining write-ins for Line 25 from overflow page	25,309,759	7,031,905	18,277,854	6,495,920

Additional Write-ins for Summary of Operations Line 8.3

	1	2
	Current Year	Prior Year
08.304. Miscellaneous income	2,356,664	54,818
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	2,356,664	54,818

ANNUAL STATEMENT FOR THE YEAR 2024 OF THE MASSMUTUAL ASCEND LIFE INSURANCE COMPANY

OVERFLOW PAGE FOR WRITE-INS

Additional Write-ins for Analysis of Operations - Summary Line 8.3

	1	2	3	4	5	6	7	8	9
	Total	Individual Life	Group Life	Individual Annuities	Group Annuities	Accident and Health	Fraternal	Other Lines of Business	YRT Mortality Risk Only
08.304. Miscellaneous income	2,356,662			2,272,413	84,249				
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	2,356,662	0	0	2,272,413	84,249	0	0	0	0

Additional Write-ins for Analysis of Operations - Individual Annuities Line 8.3

	1	Deferred				6	7
		2	3	4	5		
	Total	Fixed Annuities	Indexed Annuities	Variable Annuities with Guarantees	Variable Annuities Without Guarantees	Life Contingent Payout (Immediate and Annuitizations)	Other Annuities
08.304. Miscellaneous income	2,272,413	862,099	1,394,007			16,307	
08.305. Adjustment to IMR for reinsurance	0						
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	2,272,413	862,099	1,394,007	0	0	16,307	0

Additional Write-ins for Analysis of Operations - Group Annuities Line 8.3

	1	Deferred				6	7
		2	3	4	5		
	Total	Fixed Annuities	Indexed Annuities	Variable Annuities with Guarantees	Variable Annuities Without Guarantees	Life Contingent Payout (Immediate and Annuitizations)	Other Annuities
08.304. Miscellaneous income	84,249	22,727				61,522	
08.397. Summary of remaining write-ins for Line 8.3 from overflow page	84,249	22,727	0	0	0	61,522	0