

MASSMUTUAL CORPORATE INVESTORS

Form NSAR-A

August 29, 2011

PAGE 1
000 A000000 06/30/2011
000 C000000 0000275694
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 MASSMUTUAL CORPORATE INVESTORS
001 B000000 811-2183
001 C000000 4132261000
002 A000000 1500 MAIN STREET, P.O. BOX 15189
002 B000000 SPRINGFIELD
002 C000000 MA
002 D010000 01115
002 D020000 5189
003 000000 N
004 000000 N
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 BABSON CAPITAL MANAGEMENT LLC
008 B000001 A
008 C000001 801-241
008 D010001 SPRINGFIELD
008 D020001 MA
008 D030001 01115
008 D040001 5189
012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.
012 B000001 84-1817
012 C010001 CENTENNIAL
012 C020001 CO
012 C030001 80112
013 A000001 KPMG LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02110
013 B040001 2371
014 A000001 BABSON CAPITAL SECURITIES LLC
PAGE 2
014 B000001 8-47589
014 A000002 MML INVESTOR SERVICES, LLC
014 B000002 8-27250
014 A000003 OPPENHEIMER DISTRIBUTOR, INC.
014 B000003 8-22992
014 A000004 MML DISTRIBUTORS, LLC

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014 B000004 8-48203
 015 A000001 STATE STREET BANK AND TRUST COMPANY
 015 B000001 C
 015 C010001 BOSTON
 015 C020001 MA
 015 C030001 02116
 015 E010001 X
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 019 A000000 Y
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 020 C000005 0
 020 C000006 0
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 020 C000009 0
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 022 C000001 25277
 022 D000001 621
 022 A000002 JPMORGAN
 022 B000002 13-4994650
 022 C000002 24614
 022 D000002 1466
 022 A000003 ROYAL BANK OF SCOTLAND PLC
 022 C000003 20280
 022 D000003 316
 022 A000004 WACHOVIA SECURITIES
 022 B000004 34-1542819
 022 C000004 19056
 022 D000004 2344
 022 A000005 BARCLAY'S
 022 C000005 12045
 022 D000005 30
 022 A000006 CITIGROUP GLOBAL MARKETS
 022 B000006 13-3214963
 022 C000006 11399
 022 D000006 1000
 022 A000007 SUNTRUST BANK
 022 C000007 10899
 PAGE 3
 022 D000007 0
 022 A000008 GOLDMAN SACHS & CO
 022 B000008 13-5108880
 022 C000008 7477
 022 D000008 79
 022 A000009 MORGAN STANLEY
 022 C000009 6237
 022 D000009 896
 022 A000010 DEUTSCHE BANK
 022 B000010 13-2730828
 022 C000010 3478
 022 D000010 0
 023 C000000 166475
 023 D000000 35807
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 025 D000001 0

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| 060 | A000000 | Y |
| 060 | B000000 | Y |
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| 062 | A000000 | Y |

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| | | |
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PAGE 6

| | | |
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| 070 | G020000 | N |
| 070 | H010000 | N |
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| 070 | J020000 | Y |
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| 070 | K020000 | N |
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| 070 | L020000 | Y |
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| 070 | M020000 | N |
| 070 | N010000 | N |
| 070 | N020000 | N |

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| | | | |
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| 070 | O010000 | Y | |
| 070 | O020000 | Y | |
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| 070 | P020000 | N | |
| 070 | Q010000 | N | |
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| 070 | R010000 | N | |
| 070 | R020000 | N | |
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| 072 | O000000 | | 0 |
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| 074 | I000000 | | 11050 |
| 074 | J000000 | | 1643 |
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| 074 | L000000 | 2372 |
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| 086 | F020000 | 0 |
| 087 | A010000 | COMMON SHARES |
| 087 | A020000 | 576292106 |

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087 A030000 MCI
088 A000000 Y
088 B000000 N
088 C000000 N
088 D000000 Y

SIGNATURE JAMES M. ROY
TITLE V.P. AND C.F.O.

EXHIBIT INDEX TO FORM N-SAR
OF MASSMUTUAL CORPORATE INVESTORS
FOR SEMI-ANNUAL PERIOD ENDED JUNE 30, 2011

| EXHIBIT NO. | DESCRIPTION |
|-------------|--|
| 770 | Transactions Effected Pursuant to Rule 10f-3 |