

MASSMUTUAL CORPORATE INVESTORS

Form NSAR-A

August 31, 2010

PAGE 1
000 A000000 06/30/2010
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
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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 INC
PAGE 2
014 B000001 8-47589
014 A000002 MML INVESTOR SERVICES, INC.
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 CITIBANK, N.A.
 015 B000001 C
 015 C010001 NEW YORK
 015 C020001 NY
 015 C030001 10043
 015 E010001 X
 018 000000 Y
 019 A000000 Y
 019 B000000 2
 019 C000000 CIPIINVEST
 020 C000001 0
 020 C000002 0
 020 C000003 0
 020 C000004 0
 020 C000005 0
 020 C000006 0
 020 C000007 0
 020 C000008 0
 020 C000009 0
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 021 000000 0
 022 A000001 BA SECURITIES INC
 022 B000001 23-3069627
 022 C000001 23258
 022 D000001 1984
 022 A000002 BARCLAYS CAPITAL INC.
 022 C000002 21617
 022 D000002 3240
 022 A000003 JP MORGAN CHASE
 022 B000003 13-4994650
 022 C000003 18398
 022 D000003 2682
 022 A000004 WACHOVIA SECURITIES LLC
 022 B000004 34-1542819
 022 C000004 10580
 022 D000004 1967
 022 A000005 SUNTRUST CAPITAL MARKET
 022 C000005 10149
 022 D000005 0
 022 A000006 GOLDMAN, SACHS & CO
 022 B000006 13-5108880
 022 C000006 8006
 022 D000006 1766
 022 A000007 CITIGROUP
 PAGE 3
 022 B000007 13-3214963
 022 C000007 8815
 022 D000007 322
 022 A000008 FIRST BOSTON CORP
 022 B000008 13-5659485
 022 C000008 5188
 022 D000008 1159
 022 A000009 MORGAN, STANLEY AND CO
 022 C000009 5188
 022 D000009 1159
 022 A000010 DEUTSCHE BANK CAPITAL CORP.
 022 B000010 13-2730828
 022 C000010 2600
 022 D000010 453
 023 C000000 129865
 023 D000000 26585

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061 000000 0
062 A000000 Y
062 B000000 0.0
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062 J000000 0.0
062 K000000 0.0
062 L000000 0.0
062 M000000 0.0
062 N000000 0.0

PAGE 6

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062 Q000000 0.0
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063 A000000 0
063 B000000 4.6
064 A000000 Y
064 B000000 Y
065 000000 N
066 A000000 Y
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066 C000000 N
066 D000000 N
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070 G020000 N
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070 I020000 N
070 J010000 Y
070 J020000 Y
070 K010000 N
070 K020000 N
070 L010000 Y
070 L020000 Y
070 M010000 N
070 M020000 N

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| 070 | O020000 | Y | |
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| 070 | Q020000 | N | |
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| 074 | J000000 | 329 |
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| 074 | L000000 | 5963 |
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| 074 | R040000 | 536 |
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| 086 | D020000 | 0 |
| 086 | E010000 | 0 |
| 086 | E020000 | 0 |
| 086 | F010000 | 0 |
| 086 | F020000 | 0 |

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087 A010000 COMMON SHARES
087 A020000 576292106
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, 2010

| EXHIBIT NO. | DESCRIPTION |
|-------------|-------------|
| 77Q1 | By-Laws |