

MASSMUTUAL CORPORATE INVESTORS

Form NSAR-B

March 01, 2011

PAGE 1  
000 B000000 12/31/2010  
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  
007 A000000 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 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 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 A000001 BASS TRADING LLC  
020 C000001 3  
020 A000002 WEEDON & CO  
020 C000002 1  
020 C000003 0  
020 C000004 0  
020 C000005 0  
020 C000006 0  
020 C000007 0  
020 C000008 0  
020 C000009 0  
020 C000010 0  
021 000000 4  
022 A000001 BA SECURITIES INC  
022 B000001 23-3069627  
022 C000001 97476  
022 D000001 7299  
022 A000002 JP MORGAN CHASE  
022 B000002 13-4994650  
022 C000002 42984  
022 D000002 5637  
022 A000003 GOLDMAN, SACHS & CO  
022 B000003 13-5108880  
022 C000003 36432  
022 D000003 4936  
022 A000004 BARCLAYS CAPITAL INC.  
022 C000004 47740  
022 D000004 9803  
022 A000005 CITIGROUP  
022 B000005 13-3214963  
022 C000005 30638  
022 D000005 1926  
022 A000006 FIRST BOSTON CORP  
022 B000006 13-5659485  
PAGE 3  
022 C000006 7162  
022 D000006 3436  
022 A000007 SUNTRUST CAPITAL MARKET  
022 C000007 24497  
022 D000007 0  
022 A000008 WACHOVIA SECURITIES LLC  
022 B000008 34-1542819  
022 C000008 29236  
022 D000008 3699  
022 A000009 MORGAN, STANLEY & CO.  
022 C000009 14449  
022 D000009 3587  
022 A000010 DEUTSCHE BANK CAPITAL CORP.  
022 B000010 13-2730828  
022 C000010 12351  
022 D000010 6089

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| 059 | 000000  | Y     |

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060 A000000 Y  
060 B000000 Y  
061 000000 0  
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062 C000000 0.0  
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PAGE 6

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066 F000000 N  
066 G000000 Y  
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069 000000 N  
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070 B020000 Y  
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070 C020000 N  
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070 I010000 N  
070 I020000 N  
070 J010000 Y  
070 J020000 Y  
070 K010000 N  
070 K020000 N  
070 L010000 Y  
070 L020000 Y

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| 074 | H000000 | 0                              |
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| 077 | Q020000 | N                              |
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| 080 | A000000 | GREAT AMERICAN INSURANCE GROUP |
|     | PAGE    | 9                              |
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| 085 | A000000 | Y                              |
| 085 | B000000 | N                              |
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| 087       | A020000         | 576292106     |
| 087       | A030000         | MCI           |
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| 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 ANNUAL PERIOD ENDED DECEMBER 31, 2010

| EXHIBIT NO. | DESCRIPTION                                  |
|-------------|--|
| 77B         | Accountant's Report on Internal Controls     |
| 770         | Transactions Effected Pursuant to Rule 10f-3 |