

MASSMUTUAL CORPORATE INVESTORS

Form NSAR-B

February 25, 2004

PAGE 1  
000 B000000 12/31/2003  
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, SUITE 1100  
002 B000000 SPRINGFIELD  
002 C000000 MA  
002 D010000 01115  
002 D020000 0001  
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 DAVID L. BABSON & COMPANY INC.  
008 B000001 A  
008 C000001 801-241  
008 D010001 SPRINGFIELD  
008 D020001 MA  
008 D030001 01115  
008 D040001 0001  
012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.  
012 B000001 84-1817  
012 C010001 DENVER  
012 C020001 CO  
012 C030001 80231  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 NEW YORK  
013 B020001 NY  
013 B030001 10281  
013 B040001 1414  
015 A000001 CITIBANK, N.A.  
PAGE 2  
015 B000001 C  
015 C010001 NEW YORK  
015 C020001 NY  
015 C030001 10043  
015 E010001 X  
018 000000 Y

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019 A000000 Y  
019 B000000 2  
019 C000000 CIPIINVEST  
020 A000001 FIRST BOSTON CORP.  
020 B000001 13-5659485  
020 C000001 10  
020 A000002 S.C. BERNSTEIN  
020 B000002 13-4132953  
020 C000002 4  
020 A000003 ALLEN & COMPANY INC.  
020 B000003 13-6176976  
020 C000003 4  
020 A000004 CHARLES SCHWAB  
020 B000004 94-1737782  
020 C000004 2  
020 A000005 GOLDMAN, SACHS & CO.  
020 B000005 13-5108880  
020 C000005 1  
020 A000006 WEEDEN & CO. LP  
020 B000006 13-3364318  
020 C000006 1  
020 A000007 FIRST ALBANY CORP.  
020 B000007 14-1391446  
020 C000007 1  
020 A000008 KNIGHT SECURITIES LP  
020 B000008 22-3660471  
020 C000008 1  
020 A000009 WARBURG S.G. CO., INC.  
020 B000009 13-3873456  
020 C000009 0  
020 A000010 SALOMON SMITH BARNEY HOLD INC.  
020 B000010 11-2418191  
020 C000010 0  
021 000000 24  
022 A000001 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
022 B000001 13-5674085  
022 C000001 164555  
022 D000001 250  
022 A000002 GOLDMAN, SACHS & CO.  
022 B000002 13-5108880  
022 C000002 141216  
022 D000002 4597  
022 A000003 J.P. MORGAN CHASE  
022 B000003 13-4994650  
022 C000003 95740  
PAGE 3  
022 D000003 4785  
022 A000004 FIRST BOSTON CORP.  
022 B000004 13-5659485  
022 C000004 31251  
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022 A000005 SHEARSON LEHMAN AMER EXP  
022 B000005 13-2518466  
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022 A000006 FIRST CHICAGO CAPITAL MARKET  
022 B000006 36-3595942  
022 C000006 16373  
022 D000006 0  
022 A000007 JEFFERIES & CO., INC.  
022 B000007 95-2622900  
022 C000007 9273

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|     |         |                                |
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| 022 | D000007 | 6542                           |
| 022 | A000008 | SALOMON SMITH BARNEY HOLD INC. |
| 022 | B000008 | 11-2418191                     |
| 022 | C000008 | 8271                           |
| 022 | D000008 | 2148                           |
| 022 | A000009 | MORGAN STANLEY AND CO.         |
| 022 | B000009 | 13-2655998                     |
| 022 | C000009 | 3672                           |
| 022 | D000009 | 3011                           |
| 022 | A000010 | SPEAR, LEEDS & KELLOGG, LP     |
| 022 | B000010 | 13-5515460                     |
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PAGE 4

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| 028 | F030000 | 0 |
| 028 | F040000 | 0 |
| 028 | G010000 | 0 |
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| 054 | H000000 | Y     |   |

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054 I000000 N  
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054 K000000 N  
054 L000000 N  
054 M000000 Y  
054 N000000 N  
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060 B000000 Y  
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070 D010000 N  
070 D020000 N  
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 070 H020000 N  
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 072 O000000 312  
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 072 R000000 92  
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 072BB000000 18079  
 072CC010000 20090  
 072CC020000 0  
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| 072DD020000 | 0                               |
| 072EE000000 | 0                               |
| 073 A010000 | 1.8400                          |
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| 073 B000000 | 0.0000                          |
| 073 C000000 | 0.0000                          |
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| 074 C000000 | 6248                            |
| 074 D000000 | 161371                          |
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| 074 F000000 | 24192                           |
| 074 G000000 | 0                               |
| 074 H000000 | 0                               |
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| 074 J000000 | 3804                            |
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| 074 L000000 | 3276                            |
| 074 M000000 | 0                               |
| 074 N000000 | 223413                          |
| 074 O000000 | 0                               |
| 074 P000000 | 730                             |
| 074 Q000000 | 20000                           |
| 074 R010000 | 0                               |
| 074 R020000 | 0                               |
| 074 R030000 | 0                               |
| 074 R040000 | 8897                            |
| 074 S000000 | 0                               |
| 074 T000000 | 193786                          |
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| 074 U020000 | 0                               |
| 074 V010000 | 21.84                           |
| 074 V020000 | 0.00                            |
| 074 W000000 | 0.0000                          |
| 074 X000000 | 2707                            |
| 074 Y000000 | 0                               |
| 075 A000000 | 0                               |
| 075 B000000 | 184324                          |
| 076 000000  | 22.90                           |
| 077 A000000 | Y                               |
| 077 B000000 | Y                               |
| 077 E000000 | Y                               |
| 077 K000000 | Y                               |
| 077 Q010000 | Y                               |
| 077 Q020000 | Y                               |
| 077 Q030000 | N                               |
| 078 000000  | N                               |
| PAGE 9      |                                 |
| 080 A000000 | NEW HAMPSHIRE INSURANCE COMPANY |
| 080 B000000 | NONE                            |
| 080 C000000 | 1200                            |
| 081 A000000 | Y                               |
| 081 B000000 | 1                               |
| 082 A000000 | N                               |
| 082 B000000 | 0                               |
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| 084 A000000 | N                               |
| 084 B000000 | 0                               |
| 085 A000000 | Y                               |
| 085 B000000 | N                               |
| 086 A010000 | 56                              |

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086 A020000 1167  
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086 B020000 0  
086 C010000 0  
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086 E020000 0  
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086 F020000 0  
087 A010000 COMMON SHARES  
087 A020000 576292106  
087 A030000 MCI  
088 A000000 Y  
088 B000000 N  
088 C000000 N  
088 D000000 N  
SIGNATURE CHARLES C. MCCOBB, JR.  
TITLE V.P. AND C.F.O.

EXHIBIT INDEX TO FORM N-SAR  
OF MASSMUTUAL CORPORATE INVESTORS  
FOR SEMI-ANNUAL PERIOD ENDED DECEMBER 31, 2003

| EXHIBIT NO. | DESCRIPTION   |
|-------------|---|
| 77B         | Accountant's Report on Internal Control                       |
| 77E         | Legal Proceedings   |
| 77K         | Changes in Registrant's Certifying Accountant                 |
| 77Q1(a)     | Information Called for by the Instruction to Sub-Item 77Q1(a) |
| 77Q2        | Information Called for by the Instruction to Sub-Item 77Q2    |