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MASSMUTUAL CORPORATE INVESTORS

Form NSAR-B/A

February 28, 2005

PAGE 1  
000 B000000 12/31/2004  
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  
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001 B000000 811-2183  
001 C000000 4132261000  
002 A000000 1500 MAIN STREET, SUITE 600  
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 BABSON CAPITAL MANAGEMENT LLC  
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 80217  
012 C040001 3673  
013 A000001 KPMG LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02110  
013 B040001 2371  
PAGE 2  
015 A000001 CITIBANK, N.A.  
015 B000001 C  
015 C010001 NEW YORK  
015 C020001 NY  
015 C030001 10043  
015 E010001 X

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019 B000000 2  
019 C000000 CIPIINVEST  
020 A000001 LAZARD FRERES AND CO.  
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020 B000002 13-5659485  
020 C000002 1  
020 A000003 ALLEN & CO.  
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020 A000004 PRUDENTIAL SECURITIES INC.  
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020 A000005 SPEAR LEADS MFN  
020 B000005 13-2730828  
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020 A000007 CHARLES SCHWAB  
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020 A000008 MERRILL, LYNCH ET AL  
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022 A000001 JP MORGAN CHASE  
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022 A000005 CREDIT SUISSE FIRST BOSTON LLC  
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022 B000006 36-3595942  
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022 A000007 SALOMON SMITH BARNEY HOLD 1  
022 B000007 11-2418191

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| 022 | B000009 | 94-1737792             |
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| 022 | A000010 | SPEAR, LEEDS & KELLOGG |
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| 054 | C000000 | Y     |
| 054 | D000000 | N     |
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 054 H000000 Y  
 054 I000000 N  
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 054 K000000 N  
 054 L000000 N  
 054 M000000 Y  
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 055 B000000 Y  
 056 000000 Y  
 057 000000 N  
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 070 D010000 N  
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| 072BB | 000000  |    | 16037  |

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| 074 F000000 | 27027   |
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| 074 I000000 | 7855  |
| 074 J000000 | 1996  |
| 074 K000000 | 0   |
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| 077 E000000 | Y   |
| 077 O000000 | Y   |
| 077 Q010000 | Y   |
|             | PAGE 9  |
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| 077 Q030000 | N   |
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086 A020000 2433  
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087 A020000 576292106  
087 A030000 MCI  
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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, 2004

| EXHIBIT NO. | DESCRIPTION  |
|-------------|--|
| 77B         | Accountant's Report on Internal Control                    |
| 77E         | Legal Proceedings  |
| 77O         | Transactions Effected Pursuant to Rule 10f-3               |
| 77Q2        | Information Called for by the Instruction to Sub-Item 77Q2 |