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MASSMUTUAL CORPORATE INVESTORS

Form NSAR-B/A

February 28, 2005

PAGE 1  
000 B000000 12/31/2004  
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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 600  
002 B000000 SPRINGFIELD  
002 C000000 MA  
002 D010000 01115  
002 D020000 0001  
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004 000000 N  
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007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
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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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020 A000005 SPEAR LEADS MFN  
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020 A000006 J.P. MORGAN CHASE  
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020 A000007 CHARLES SCHWAB  
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022 A000007 SALOMON SMITH BARNEY HOLD 1  
022 B000007 11-2418191

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054 F000000 N  
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 054 K000000 N  
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077 Q020000	Y
077 Q030000	N
078 000000	N
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080 B000000	NONE
080 C000000	1200
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082 A000000	N
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085 A000000 Y  
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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, 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