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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 29, 2008

PAGE 1  
000 B000000 12/31/2007  
000 C000000 0000831655  
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000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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001 A000000 MASSMUTUAL PARTICIPATION INVESTORS  
001 B000000 811-5531  
001 C000000 4132261000  
002 A000000 1500 MAIN STREET, SUITE 600  
002 B000000 SPRINGFIELD  
002 C000000 MA  
002 D010000 01115  
002 D020000 5189  
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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  
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008 D030001 01115  
008 D040001 5189  
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  
014 A000001 BABSON CAPITAL SECURITIES INC  
014 B000001 8-47589  
015 A000001 CITIBANK, N.A.  
015 B000001 C  
015 C010001 NEW YORK  
015 C020001 NY

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020 A000002 MERRILL, LYNCH, PIERCE, FENNER & SMITH, INC.  
020 B000002 13-5674085  
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020 A000003 LEHMAN BROTHERS  
020 B000003 13-2518466  
020 C000003 0  
020 A000004 SALOMON SMITH BARNEY HOLD INC  
020 B000004 11-2418191  
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020 A000005 WACHOVIA SECURITIES LLC  
020 B000005 34-1542819  
020 C000005 0  
020 A000006 CIBC WORK MARKETS CORP.  
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020 A000007 JP MORGAN CHASE  
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020 A000008 GOLDMAN, SACHS & CO  
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020 C000008 0  
020 A000009 BEAR, STEARNS & CO  
020 B000009 13-3299429  
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020 A000010 PIPER, JAFFRAY INC.  
020 B000010 41-0953246  
020 C000010 0  
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022 A000003 CITIGROUP  
022 B000003 13-3214963  
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022 A000004 WACHOVIA SECURITIES LLC  
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022 A000005 MERRILL, LYNCH, PIERCE, FENNER & SMITH, INC.  
022 B000005 13-5674085  
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022 A000008 DEUTSCHE BNK CAPITAL CORP  
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022 A000009 HKW & COMPANY  
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054 F000000 N  
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077 L000000	N
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077 N000000	N
077 O000000	Y
077 P000000	N
077 Q010000	N
077 Q020000	Y
077 Q030000	N

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078 000000 N  
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 080 B000000 NONE  
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 088 A000000 Y  
 088 B000000 N  
 088 C000000 N  
 088 D000000 N  
 SIGNATURE JAMES M. ROY  
 TITLE V.P. AND C.F.O.

EXHIBIT INDEX TO FORM N-SAR  
 OF MASSMUTUAL PARTICIPATION INVESTORS  
 FOR ANNUAL PERIOD ENDED DECEMBER 31, 2007

EXHIBIT NO.	DESCRIPTION
77B	Accountant's Report on Internal Controls
770	Transactions Effected Pursuant to Rule 10f-3
77Q2	Information called for by Item 405 of Regulation S-K