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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 29, 2008

PAGE 1
000 B000000 12/31/2007
000 C000000 0000831655
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
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002 B000000 SPRINGFIELD
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002 D010000 01115
002 D020000 5189
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005 000000 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
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012 C020001 CO
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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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015 C030001 10043
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019 A000000 Y
019 B000000 2
019 C000000 CIPINVEST
020 A000001 FIRST BOSTON CORP.
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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
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020 A000004 SALOMON SMITH BARNEY HOLD INC
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020 B000009 13-3299429
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020 A000010 PIPER, JAFFRAY INC.
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022 A000002 JP MORGAN CHASE
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PAGE 3
022 A000003 CITIGROUP
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022 B000005 13-5674085
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022 A000006 LEHMAN BROTHERS
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022 A000007 FIRST BOSTON CORP.
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022 A000008 DEUTSCHE BNK CAPITAL CORP
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022 A000009 HKW & COMPANY
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026 H000000 N
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028 E040000 0
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028 F040000 0

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| 054 | C000000 | Y |
| 054 | D000000 | N |
| 054 | E000000 | N |

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054 F000000 N
 054 G000000 Y
 054 H000000 Y
 054 I000000 N
 054 J000000 Y
 054 K000000 N
 054 L000000 N
 054 M000000 Y
 054 N000000 N
 054 O000000 Y
 055 A000000 N
 055 B000000 N
 056 000000 Y
 057 000000 N
 058 A000000 N
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| 070 | J020000 | Y | |
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| 070 | N020000 | N | |
| 070 | O010000 | Y | |
| 070 | O020000 | Y | |
| 070 | P010000 | N | |
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| 074 R030000 | 0 |
| 074 R040000 | 5908 |
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| 074 V020000 | 0.00 |
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| 077 O000000 | Y |
| 077 P000000 | N |
| 077 Q010000 | N |
| 077 Q020000 | Y |
| 077 Q030000 | N |

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078 000000 N
 080 A000000 NATIONAL UNION FIRE INSURANCE COMPANY
 080 B000000 NONE
 080 C000000 1350
 081 A000000 Y
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 082 A000000 N
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 087 A020000 576299101
 087 A030000 MPV
 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 |