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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 29, 2008

PAGE 1
000 B000000 12/31/2007
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000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
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007 C010800 8
007 C010900 9
007 C011000 10
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012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.
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012 C020001 CO
012 C030001 80217
012 C040001 3673
013 A000001 KPMG LLP
013 B010001 BOSTON
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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 A000003 LEHMAN BROTHERS
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PAGE 3
022 A000003 CITIGROUP
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054 F000000 N
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077 P000000	N
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077 Q030000	N

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078 000000 N
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 080 C000000 1350
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 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