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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 26, 2010

PAGE 1
000 B000000 12/31/2009
000 C000000 0000831655
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 MASSMUTUAL PARTICIPATION INVESTORS
001 B000000 811-5531
001 C000000 4132261000
002 A000000 1500 MAIN STREET, P.O. BOX 15189
002 B000000 SPRINGFIELD
002 C000000 MA
002 D010000 01115
002 D020000 5189
003 000000 N
004 000000 N
005 000000 N
006 000000 N
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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
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008 D020001 MA
008 D030001 01115
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012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.
012 B000001 84-1817
012 C010001 CENTENNIAL
012 C020001 CO
012 C030001 80112
013 A000001 KPMG LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02110
013 B040001 2371
014 A000001 BABSON CAPITAL SECURITIES INC
PAGE 2
014 B000001 8-47589
014 A000002 MML INVESTOR SERVICES, INC.
014 B000002 8-27250
014 A000003 OPPENHEIMER DISTRIBUTOR, INC.
014 B000003 8-22992
014 A000004 MML DISTRIBUTORS, LLC

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014 B000004 8-48203
015 A000001 CITIBANK, N.A.
015 B000001 C
015 C010001 NEW YORK
015 C020001 NY
015 C030001 10043
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022 A000007 WACHOVIA SECURITIES LLC
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022 B000007 34-1542819
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022 A000008 MORGAN, STANLEY & CO.
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022 D000008 611
022 A000009 DEUTSCHE BANK CAPITAL CORP.
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022 A000010 FIRST BOSTON CORP.
022 B000010 13-5659485
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070	I020000	N	
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070 K010000 N
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 PAGE 7
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086 A020000 616
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087 A010000 SHARES OF BENEFICIAL INTEREST
087 A020000 576299101
087 A030000 MPV
088 A000000 Y
088 B000000 N
088 C000000 N
088 D000000 Y
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, 2009

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