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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 26, 2010

PAGE 1
000 B000000 12/31/2009
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000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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001 A000000 MASSMUTUAL PARTICIPATION INVESTORS
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001 C000000 4132261000
002 A000000 1500 MAIN STREET, P.O. BOX 15189
002 B000000 SPRINGFIELD
002 C000000 MA
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002 D020000 5189
003 000000 N
004 000000 N
005 000000 N
006 000000 N
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007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
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008 D020001 MA
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012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.
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013 A000001 KPMG LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02110
013 B040001 2371
014 A000001 BABSON CAPITAL SECURITIES INC
PAGE 2
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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
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015 C020001 NY
015 C030001 10043
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022 A000006 BARCLAYS CAPITAL INC.
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022 A000007 WACHOVIA SECURITIES LLC
PAGE 3
022 B000007 34-1542819
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022 A000008 MORGAN, STANLEY & CO.
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022 A000009 DEUTSCHE BANK CAPITAL CORP.
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022 A000010 FIRST BOSTON CORP.
022 B000010 13-5659485
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087 A020000 576299101
087 A030000 MPV
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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