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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 26, 2010

PAGE 1  
000 B000000 12/31/2009  
000 C000000 0000831655  
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000 J000000 A  
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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  
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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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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 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 A000001 BA SECURITIES INC  
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 022 B000002 13-3214963  
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 022 A000003 GOLDMAN, SACHS & CO  
 022 B000003 13-5108880  
 022 C000003 39563  
 022 D000003 1179  
 022 A000004 JP MORGAN CHASE  
 022 B000004 13-4994650  
 022 C000004 27974  
 022 D000004 1272  
 022 A000005 SUNTRUST CAPITAL MARKET  
 022 C000005 13293  
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 022 A000006 BARCLAYS CAPITAL INC.  
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 022 A000007 WACHOVIA SECURITIES LLC  
 PAGE 3  
 022 B000007 34-1542819  
 022 C000007 7450  
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 022 A000008 MORGAN, STANLEY & CO.  
 022 C000008 6277  
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 022 A000009 DEUTSCHE BANK CAPITAL CORP.  
 022 B000009 13-2730828  
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 022 A000010 FIRST BOSTON CORP.  
 022 B000010 13-5659485  
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085 A000000 Y  
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086 A020000 616  
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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