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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

March 01, 2011

PAGE 1  
000 B000000 12/31/2010  
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  
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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  
008 B000001 A  
008 C000001 801-241  
008 D010001 SPRINGFIELD  
008 D020001 MA  
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 LLC  
PAGE 2  
014 B000001 8-47589  
014 A000002 MML INVESTOR SERVICES, LLC  
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.  
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 015 C010001 NEW YORK  
 015 C020001 NY  
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 019 A000000 Y  
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 022 A000001 BA SECURITIES INC  
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 022 B000003 13-5108880  
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 022 A000004 JP MORGAN CHASE  
 022 B000004 13-4994650  
 022 C000004 20073  
 022 D000004 3952  
 022 A000005 SUNTRUST CAPITAL MARKET  
 022 C000005 8500  
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 022 A000006 BARCLAYS CAPITAL TRUST  
 022 C000006 17869  
 022 D000006 1449  
 022 A000007 WACHOVIA SECURITIES LLC  
 PAGE 3  
 022 B000007 34-1542819  
 022 C000007 24290  
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 022 A000008 MORGAN, STANLEY & CO.  
 022 C000008 17198  
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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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070	J010000	Y	
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080	B000000	NONE
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081	B000000	1
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084 A000000 N  
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086 A010000 67  
086 A020000 829  
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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, 2010

EXHIBIT NO.	DESCRIPTION
77B	Accountant's Report on Internal Controls
77Q2	Information Called for by Item 405 of Regulation S-K