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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

March 01, 2011

PAGE 1
000 B000000 12/31/2010
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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
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 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 D040001 5189
012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.
012 B000001 84-1817
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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
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 022 C000003 37294
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 022 B000004 13-4994650
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 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
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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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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