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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-A

August 31, 2010

PAGE 1  
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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 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 INC  
PAGE 2  
014 B000001 8-47589  
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015 A000001 CITIBANK, N.A.  
015 B000001 C

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015 C010001 NEW YORK  
015 C020001 NY  
015 C030001 10043  
015 E010001 X  
018 000000 Y  
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022 C000002 10315  
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022 A000003 BA SECURITIES INC  
022 C000003 10043  
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022 A000004 BARCLAYS CAPITAL INC.  
022 C000004 9869  
022 D000004 114  
022 A000005 JP MORGAN CHASE  
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022 A000006 SUNTRUST CAPITAL MARKET  
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022 A000007 DEUTSCHE BANK CAPITAL CORP.  
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022 A000008 FIRST BOSTON CORP  
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022 B000008 13-5659485  
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022 A000009 CITIGROUP  
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022 A000010 MORGAN, STANLEY AND CO  
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023 D000000 8909  
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025 A000001 CITIGROUP  
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086 E010000 0  
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086 F010000 0  
086 F020000 0  
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 SEMI-ANNUAL PERIOD ENDED JUNE 30, 2010

EXHIBIT NO.	DESCRIPTION
77Q1	By-Laws