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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-A

August 31, 2010

PAGE 1  
000 A000000 06/30/2010  
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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  
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006 000000 N  
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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  
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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  
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013 B040001 2371  
014 A000001 BABSON CAPITAL SECURITIES INC  
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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 A000003 BA SECURITIES INC  
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022 A000004 BARCLAYS CAPITAL INC.  
022 C000004 9869  
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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 D000008 1435  
022 A000009 CITIGROUP  
022 B000009 13-3214963  
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023 C000000 86132  
023 D000000 8909  
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086 E010000 0  
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086 F010000 0  
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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