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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-A

August 29, 2007

PAGE 1  
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000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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000 J000000 A  
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001 B000000 811-5531  
001 C000000 4132261000  
002 A000000 1500 MAIN STREET, SUITE 600  
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012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.  
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012 C010001 DENVER  
012 C020001 CO  
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013 A000001 KPMG LLP  
013 B010001 BOSTON  
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PAGE 2  
014 A000001 BABSON CAPITAL SECURITIES INC  
014 B000001 8-47589  
015 A000001 CITIBANK, N.A.  
015 B000001 C  
015 C010001 NEW YORK  
015 C020001 NY

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020 A000003 SALOMON SMITH BARNEY HOLD INC.  
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020 A000004 WACHOVIA SECURITIES LLC  
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020 A000005 CIBC WORLD MARKETS CORP.  
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020 A000006 JP MORGAN CHASE  
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020 A000007 GOLDMAN, SACHS & CO.  
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020 A000009 BEAR, STEARNS & CO.  
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020 A000010 PIPER, JAFFRAY INC.  
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087 A020000 576299101  
087 A030000 MPV  
088 A000000 Y  
088 B000000 N  
088 C000000 N  
088 D000000 N  
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, 2007

EXHIBIT NO.	DESCRIPTION
770	Transactions Effected Pursuant to Rule 10f-3