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MASSMUTUAL PARTICIPATION INVESTORS

Form NSAR-B

February 29, 2008

PAGE 1  
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001 C000000 4132261000  
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002 D020000 5189  
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007 C010800 8  
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008 D010001 SPRINGFIELD  
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008 D030001 01115  
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012 A000001 SHAREHOLDER FINANCIAL SERVICES, INC.  
012 B000001 84-1817  
012 C010001 DENVER  
012 C020001 CO  
012 C030001 80217  
012 C040001 3673  
013 A000001 KPMG LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02110  
013 B040001 2371  
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 LEHMAN BROTHERS  
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 020 A000004 SALOMON SMITH BARNEY HOLD INC  
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 022 A000003 CITIGROUP  
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078 000000 N  
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 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 ANNUAL PERIOD ENDED DECEMBER 31, 2007

EXHIBIT NO.	DESCRIPTION
77B	Accountant's Report on Internal Controls
770	Transactions Effected Pursuant to Rule 10f-3
77Q2	Information called for by Item 405 of Regulation S-K