

MASSMUTUAL PARTICIPATION INVESTORS  
 Form 3  
 February 05, 2007

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL  
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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|  |   |   |  |
|--|---|---|--|
| <p>1. Name and Address of Reporting Person *</p> <p>Â Shettle Robert Mark</p> <p>(Last) (First) (Middle)</p> <p>BABSON CAPITAL<br/>                 MANAGEMENT LLC,Â 1500<br/>                 MAIN STREET POST OFFICE<br/>                 BOX 15189</p> <p>(Street)</p> <p>SPRINGFIELD,Â MAÂ 01115</p> <p>(City) (State) (Zip)</p> | <p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>01/26/2007</p> | <p>3. Issuer Name and Ticker or Trading Symbol</p> <p>MASSMUTUAL PARTICIPATION INVESTORS<br/>                 [MPV]</p> <p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br/> <input type="checkbox"/> Officer <input checked="" type="checkbox"/> Other<br/>                 (give title below) (specify below)<br/>                 Officer of Adviser</p> | <p>5. If Amendment, Date Original Filed(Month/Day/Year)</p>  |
|  |   |   | <p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person<br/> <input type="checkbox"/> Form filed by More than One Reporting Person</p> |

**Table I - Non-Derivative Securities Beneficially Owned**

|   |   |  |   |
|---|---|--|---|
| <p>1. Title of Security<br/>                 (Instr. 4)</p> | <p>2. Amount of Securities Beneficially Owned<br/>                 (Instr. 4)</p> | <p>3. Ownership Form:<br/>                 Direct (D)<br/>                 or Indirect (I)<br/>                 (Instr. 5)</p> | <p>4. Nature of Indirect Beneficial Ownership<br/>                 (Instr. 5)</p> |
|---|---|--|---|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

|  |  |   |  |  |   |
|--|--|---|--|--|---|
| <p>1. Title of Derivative Security<br/>                 (Instr. 4)</p> | <p>2. Date Exercisable and Expiration Date<br/>                 (Month/Day/Year)</p> | <p>3. Title and Amount of Securities Underlying Derivative Security<br/>                 (Instr. 4)</p> | <p>4. Conversion or Exercise Price of Derivative</p> | <p>5. Ownership Form of Derivative Security:</p> | <p>6. Nature of Indirect Beneficial Ownership<br/>                 (Instr. 5)</p> |
|--|--|---|--|--|---|

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| Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) |
|------------------|-----------------|-------|----------------------------|----------|---------------------------------------|
|------------------|-----------------|-------|----------------------------|----------|---------------------------------------|

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |         |                    |
|---|---------------|-----------|---------|--------------------|
|   | Director      | 10% Owner | Officer | Other              |
| Shettle Robert Mark<br>BABSON CAPITAL MANAGEMENT LLC<br>1500 MAIN STREET POST OFFICE BOX 15189<br>SPRINGFIELD, MA 01115 | ^             | ^         | ^       | Officer of Adviser |

## Signatures

/s/ Shettle,  
Robert M. 01/29/2007

\*\*Signature of Reporting Person Date

## Explanation of Responses:

### No securities are beneficially owned

\* If the form is filed by more than one reporting person, *see* Instruction 5(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.

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