

Rollings Michael Thomas
 Form 5
 February 13, 2007

FORM 5

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).
 Form 3 Holdings Reported Form 4 Transactions Reported

ANNUAL STATEMENT OF CHANGES IN 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

1. Name and Address of Reporting Person *
 Rollings Michael Thomas

(Last) (First) (Middle)

MASSACHUSETTS MUTUAL
 LIFE INSURANCE CO, 1295
 STATE STREET

(Street)

SPRINGFIELD, MA 01111

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 MASSMUTUAL CORPORATE INVESTORS [MCI]

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 12/31/2006

4. If Amendment, Date Original Filed (Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___ 10% Owner
 ___ Officer (give title below) Other (specify below)
 Investment Adviser Director

6. Individual or Joint/Group Reporting

(check applicable line)

Form Filed by One Reporting Person
 ___ Form Filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
| | | | | (A) or (D) Price | | | |

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

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SEC 2270 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | |
|--|--|--------------------------------------|--|--------------------------------|--|-----|--|-----------------|---|----------------------------|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 01/13/2006 | Â | A | 339.21 | Â | Â (1)(2) | Â (1)(2) | Capital Stock | 339.21 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 03/16/2006 | Â | A | 9.52 | Â | Â (1) | Â (1) | Capital Stock | 9.52 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 03/30/2006 | Â | A | 9.22 | Â | Â (1) | Â (1) | Capital Stock | 9.22 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 04/13/2006 | Â | A | 9.4 | Â | Â (1) | Â (1) | Capital Stock | 9.4 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 04/27/2006 | Â | A | 9.86 | Â | Â (1) | Â (1) | Capital Stock | 9.86 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 05/11/2006 | Â | A | 10.13 | Â | Â (1) | Â (1) | Capital Stock | 10.13 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 05/15/2006 | Â | A | 177.94 | Â | Â (1)(2) | Â (1)(2) | Capital Stock | 177.94 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 05/15/2006 | Â | A | 0.56 | Â | Â (1)(2) | Â (1)(2) | Capital Stock | 0.56 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 05/25/2006 | Â | A | 9.98 | Â | Â (1) | Â (1) | Capital Stock | 9.98 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 06/08/2006 | Â | A | 10.03 | Â | Â (1) | Â (1) | Capital Stock | 10.03 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 06/22/2006 | Â | A | 14.88 | Â | Â (1) | Â (1) | Capital Stock | 14.88 |
| MassMutual | \$ 0 | 07/06/2006 | Â | A | 31.82 | Â | Â (1) | Â (1) | Capital | 31.82 |

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| | | | | | | | | | | |
|--------------------------------------|------|------------|---|---|--------|---|-----------------|-----------------|---------------|--------|
| Non-Qualified Thrift Plan | | | | | | | | | Stock | |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 07/20/2006 | Â | A | 14.02 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 14.02 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 08/03/2006 | Â | A | 14.23 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 14.23 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 08/14/2006 | Â | A | 181.1 | Â | Â <u>(1)(2)</u> | Â <u>(1)(2)</u> | Capital Stock | 181.1 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 08/14/2006 | Â | A | 1.9 | Â | Â <u>(1)(2)</u> | Â <u>(1)(2)</u> | Capital Stock | 1.9 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 08/17/2006 | Â | A | 13.24 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 13.24 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 08/31/2006 | Â | A | 13.32 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 13.32 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 09/14/2006 | Â | A | 13.18 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 13.18 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 09/28/2006 | Â | A | 13.27 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 13.27 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 10/12/2006 | Â | A | 13.03 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 13.03 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 10/26/2006 | Â | A | 12.86 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 12.86 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 11/09/2006 | Â | A | 12.75 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 12.75 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 11/14/2006 | Â | A | 173.56 | Â | Â <u>(1)(2)</u> | Â <u>(1)(2)</u> | Capital Stock | 173.56 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 11/14/2006 | Â | A | 3.12 | Â | Â <u>(1)(2)</u> | Â <u>(1)(2)</u> | Capital Stock | 3.12 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 11/22/2006 | Â | A | 12.57 | Â | Â <u>(1)</u> | Â <u>(1)</u> | Capital Stock | 12.57 |

| | | | | | | | | | | |
|--|------|------------|---|---|-------|---|-------|-------|------------------|-------|
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 12/07/2006 | Â | A | 12.33 | Â | Â (1) | Â (1) | Capital Stock | 12.33 |
| MassMutual Non-Qualified Thrift Plan | \$ 0 | 12/21/2006 | Â | A | 12.69 | Â | Â (1) | Â (1) | Capital Stock | 12.69 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-----------------------------|
| | Director | 10% Owner | Officer | Other |
| Rollings Michael Thomas MASSACHUSETTS MUTUAL LIFE INSURANCE CO 1295 STATE STREET SPRINGFIELD, MA 01111 | Â | Â | Â | Investment Adviser Director |

Signatures

By: Mark Godin as
Attorney-in-fact for

02/13/2007

Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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).
- (1) Exercisable only upon termination or retirement, however, holdings may be liquidated and invested into other investment options at each month. The derivative has no actual securities underlying the agreement, which is entirely notional.
- (2) Amount of securities beneficially owned includes shares issued pursuant to a dividend reinvestment plan.

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