

Parmeswar Rajan
Form 4
February 10, 2010

FORM 4

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

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Parmeswar Rajan

(Last) (First) (Middle)

AETNA INC., 151 FARMINGTON AVENUE

(Street)

HARTFORD, CT 06156

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
AETNA INC /PA/ [AET]

3. Date of Earliest Transaction (Month/Day/Year)
02/08/2010

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)

VP/Controller/Chief Acct Off

6. Individual or Joint/Group Filing(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 Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| Common Stock | | | | (A) or (D) Price | 4,401 ⁽¹⁾ | I | By 401(k) Plan |

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

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SEC 1474 (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 (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price or Derivative Security (Instr. 3) |
|--|--|--------------------------------------|--|--------------------------------|--|--|---|--|
| Market Stock Unit | (2) | 02/08/2010 | | A | 5,687 | (3) (3) | Common Stock | 5,687 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Parmeswar Rajan AETNA INC. 151 FARMINGTON AVENUE HARTFORD, CT 06156 | | | VP/Controller/Chief Acct Off | |

Signatures

Rajan Parmeswar by Judith H. Jones, Attorney
-in-fact

02/10/2010

_____*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) Represents the pro rata portion of the stock portion of Aetna Common Stock Fund held by reporting person on January 30, 2010. The information is based on information provided by the Plan Trustee as of that date.
- (2) Each Market Stock Unit represents a right to receive up to 1.5 shares of Aetna Inc. Common Stock net of taxes. Vesting amount will be determined based on the weighted average closing stock price for the thirty trading days prior to the vest date.
- (3) Market Stock Units granted under the Aetna Inc. 2000 Stock Incentive Plan, units will vest on 2/8/12.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.