

THYAGARAJAN VENKATRAMAN  
 Form 4  
 February 16, 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 \*  
 THYAGARAJAN  
 VENKATRAMAN

(Last) (First) (Middle)

C/O VARIAN MEDICAL  
 SYSTEMS, INC., 3100 HANSEN  
 WAY, MAIL STOP E-327

(Street)

PALO ALTO, CA 94304-1030

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 VARIAN MEDICAL SYSTEMS  
 INC [VAR]

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 02/12/2010

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)

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)
			(A) or (D)	Code V	Amount	Price	

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 Acquired (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 Security (Instr. 3 and 4)
Deferred Stock Units	\$ 0 <sup>(1)</sup>	02/12/2010		A	2,102	<sup>(2)</sup> 02/12/2013 <sup>(2)</sup>	Common Stock 2,102
Non Qualified Stock Option (Right to Buy)	\$ 47.58	02/12/2010		A	5,000	02/12/2010 <sup>(3)</sup> 02/12/2017	Common Stock 5,000

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

THYAGARAJAN VENKATRAMAN  
 C/O VARIAN MEDICAL SYSTEMS, INC.  
 3100 HANSEN WAY, MAIL STOP E-327  
 PALO ALTO, CA 94304-1030

X

## Signatures

/s/ Franco N. Palomba, attorney-in-fact for Venkatraman  
 Thyagarajan

02/16/2010

         \*\*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) Each Deferred Stock Unit represents the right to receive one share of VAR common stock.
- (2) The Deferred Stock Units vest in four equal quarterly installments over a 12 month period beginning February 12, 2010. Vested shares will be delivered to the reporting person the earlier of three years from the grant date, or termination/retirement date.
- (3) Stock option granted under the Varian Medical Systems, Inc. Second Amended and Restated 2005 Omnibus Stock Plan, which complies with Rule 16b-3.

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.