

KLUGE ROBERT H  
Form 4  
March 16, 2010

**FORM 4**

**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).

**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 \*  
KLUGE ROBERT H

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

5. Relationship of Reporting Person(s) to Issuer  
(Check all applicable)

(Last) (First) (Middle)  
C/O VARIAN MEDICAL SYSTEM, 3100 HANSEN WAY, MAIL STOP E-327  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
03/15/2010

\_\_\_\_ Director  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
Corp VP; Pres. X-Ray Products

PALO ALTO, CA 94304  
(City) (State) (Zip)

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

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|
|                                 |                                      |                                                    | Code                           | V Amount (A) or (D) Price                                         |                                                                                               |                                                          |                                                       |
| Common Stock                    | 03/15/2010                           |                                                    | M                              | 1,875 A \$ 17.95                                                  | 78,655                                                                                        | D                                                        |                                                       |
| Common Stock                    | 03/15/2010                           |                                                    | M                              | 8,125 A \$ 24.375                                                 | 86,780                                                                                        | D                                                        |                                                       |
| Common Stock                    | 03/15/2010                           |                                                    | S <sup>(1)</sup>               | 10,000 D \$ 53.0253                                               | 76,780                                                                                        | D                                                        |                                                       |
|                                 |                                      |                                                    |                                |                                                                   | <sup>(2)</sup>                                                                                |                                                          |                                                       |

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

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(9-02)

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

| 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 Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------|
| Non-qualified Stock Option (Right to Buy)  | \$ 17.95                                               | 03/15/2010                           |                                                    | M                              | 1,875                                                                                   | <sup>(3)</sup> 11/15/2011                                | Common Stock                                                  | 1,875                      |
| Non-qualified Stock Option (Right to Buy)  | \$ 24.375                                              | 03/15/2010                           |                                                    | M                              | 8,125                                                                                   | <sup>(4)</sup> 11/14/2012                                | Common Stock                                                  | 8,125                      |

## Reporting Owners

| Reporting Owner Name / Address                                                                         | Relationships |           |                               |       |
|--------------------------------------------------------------------------------------------------------|---------------|-----------|-------------------------------|-------|
|                                                                                                        | Director      | 10% Owner | Officer                       | Other |
| KLUGE ROBERT H<br>C/O VARIAN MEDICAL SYSTEM<br>3100 HANSEN WAY, MAIL STOP E-327<br>PALO ALTO, CA 94304 |               |           | Corp VP; Pres. X-Ray Products |       |

## Signatures

/s/ John A. Thorson, Attorney in Fact for Robert H. Kluge  
Date: 03/16/2010

\_\_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) This transaction is pursuant to the filer's SEC Rule 10b5-1 Stock Plan
- (2) The 10,000 shares were sold in multiple transactions executed on the same day at prices ranging from \$52.84 to \$53.13. The detailed breakdown of executed sales will be furnished upon request.

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- Stock option granted under the Varian Medical Systems, Inc. 1990 Omnibus Stock Plan, which complies with new Rule 16b-3. The
- (3) option vests as follows: one third on 11/15/02, and the remaining shares in 24 equal installments over the 24 months following the first vesting date.

- Stock option granted under the Varian Medical Systems, Inc. 1990 Omnibus Stock Plan, which complies with new Rule 16b-3. The
- (4) option vests as follows: one third on 11/14/03, and the remaining shares in 24 equal installments over the 24 months following the first vesting date.

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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