

KUO JOHN W
 Form 4
 September 22, 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 *
 KUO JOHN W

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

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)
 Director 10% Owner
 Officer (give title below) Other (specify below)
 VP, Gen Counsel and Secretary

(Last) (First) (Middle)
 C/O VARIAN MEDICAL SYSTEMS, INC., 3100 HANSEN WAY M/S E-327
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/21/2010

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 Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	09/21/2010		M		5,000	A	\$ 37.17
Common Stock	09/21/2010		M		5,500	A	\$ 39.85
Common Stock	09/21/2010		S ⁽¹⁾		5,000	D	\$ 60
Common Stock	09/21/2010		S ⁽¹⁾		5,500	D	\$ 60
							1,197.373
							I

Common
Stock

By 401k
Plan

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)	\$ 37.17	09/21/2010		M	5,000	⁽²⁾ 02/13/2016	Common Stock	5,000
Non-qualified Stock Option (Right to Buy)	\$ 39.85	09/21/2010		M	5,500	⁽³⁾ 11/18/2014	Common Stock	5,500

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

KUO JOHN W
C/O VARIAN MEDICAL SYSTEMS, INC.
3100 HANSEN WAY M/S E-327
PALO ALTO, CA 94304

VP, Gen Counsel and Secretary

Signatures

/s/ John A. Thorson, Attorney in Fact for John W.
Kuo

09/22/2010

**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

Stock option granted under the Varian Medical Systems, Inc. Second Amended and Restated 2005 Omnibus Stock Plan, which complies

(2) with Rule 16b-3. The option vests as follows: one third on 2/13/2010, and the remaining shares in 24 equal installments over the 24 months following the first vesting date.

(3) Stock option granted under the Varian Medical Systems, Inc. 2000 Stock Plan, which complies with Rule 16b-3. The option vests as follows: one third on 11/18/05, 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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