CHEN TAI-YUN Form 4 February 16, 2011

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

2. Issuer Name and Ticker or Trading

OMB APPROVAL

OMB Number: 3235-0287

Expires: January 31, 2005

0.5

Estimated average burden hours per response...

5. Relationship of Reporting Person(s) to

Check this box if no longer subject to Section 16. Form 4 or Form 5

SECURITIESFiled pursuant to Section 16(a) of the Securities Exchange Act of 1934,

obligations may continue. See Instruction

See Instruction

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

CHEN TAI-YUN Issuer Symbol VARIAN MEDICAL SYSTEMS (Check all applicable) INC [VAR] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner Other (specify X_ Officer (give title (Month/Day/Year) below) C/O VARIAN MEDICAL 02/15/2011 VP and Corporate Controller SYSTEMS, INC., 3100 HANSEN **WAY M/S E-327** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting PALO ALTO, CA 94304 (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Transaction(A) or Disposed of (D) Form: Direct Indirect Security (Month/Day/Year) Execution Date, if Securities (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price Common 02/15/2011 F 991 (1) 8,573 D 70.75 Stock Common By 401k 3,512,231 Ι Stock 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)

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate	Amount of		Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ing	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivative				Securities		(Instr. 5)	Bene
	Derivative				Securities Acquired (A) or			(Instr. 3	and 4)		Own
	Security										Follo
	•										Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3, 4, and 5)						
								Λ.	mount		
									mount		
						Date	Expiration Date	Title N	r Jumber		
						Exercisable		Title Numb			
				C + V	(A) (D)						
			Code V (A) (D)					S	hares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Other Director 10% Owner Officer

CHEN TAI-YUN C/O VARIAN MEDICAL SYSTEMS, INC. 3100 HANSEN WAY M/S E-327 PALO ALTO, CA 94304

VP and Corporate Controller

Signatures

/s/ Kimberley E. Honeysett, Attorney in Fact for Tai-Yun Chen

02/16/2011

**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 shares withheld from vested restricted stock for the payment of federal, state and payroll taxes due on vesting.

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. ="2">(3)Reflects the number of stock units earned pursuant to the terms of a performance stock unit award granted on 12/17/2013 reflecting the achievement of the related performance conditions. These shares vest in equal 1/3 amounts on each December 20, 2014, 2015, and 2016.

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