Rhine Bruce C Form 4 May 29, 2013

## FORM 4

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

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** Section 16. Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

obligations may continue. 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).

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person ** Rhine Bruce C			2. Issuer Name and Ticker or Trading Symbol NANOMETRICS INC [NANO]					5. Relationship of Reporting Person(s) to Issuer			
(Last) (First) (Middle)  C/O NANOMETRICS, INC., 1550  BUCKEYE DRIVE			3. Date of Earliest Transaction (Month/Day/Year) 05/24/2013					(Check all applicable)  _X Director 10% Owner Officer (give title below)  Other (specify below)			
(Street) MILPITAS, CA 95035			4. If Amendment, Date Original Filed(Month/Day/Year)				6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Table	e I - Non-D	erivative S	Securi	ties Ac	quired, Disposed	of, or Beneficia	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Da (Month/Day/Year	Execution any	emed on Date, if Day/Year)	Code (Instr. 8)	4. SecurionAcquired Disposed (Instr. 3,	I (A) o I of (D 4 and (A) or	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)	
Common Stock	05/24/2013			Code V A	Amount 6,930 (1)	(D)	Price \$ 0	864,488	D		
Common								1,428	I	By spouse	

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

Persons who respond to the collection of **SEC 1474** information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

**OMB APPROVAL** 

3235-0287

January 31,

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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		4. T	5.	6. Date Exerc		7. Title		8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration D	ate	Amou	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	lying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr.	3 and 4)		Own
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						`
					4, and 5)						
					.,						
									Amount		
						Date	Evaluation		or		
							Expiration	Title	Number		
						Exercisable	Date		of		
				Code V	(A) (D)				Shares		

## **Reporting Owners**

Reporting Owner Name / Address	Relationships						
• 0	Director	10% Owner	Officer	Other			
Rhine Bruce C							
C/O NANOMETRICS, INC.	X						
1550 BUCKEYE DRIVE	Λ						
MILPITAS, CA 95035							

## **Signatures**

/s/Ronald W. Kisling, Attorney-in-Fact 05/28/2013

\*\*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) Shares are represented by restricted stock units. Each restricted stock unit represents a contingent right to receive one share of NANO common stock. The restricted stock units vest the sooner of May 24, 2014 or the next annual shareholder's meeting.

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.

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