Brown Edward J Jr Form 4 May 29, 2013

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

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Estimated average

OMB APPROVAL

if no longer subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Check this box

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

1(b).

Stock

(Print or Type Responses)

1. Name and Ad Brown Edwa	Symbol	2. Issuer Name and Ticker or Trading Symbol				5. Relationship of Reporting Person(s) to Issuer			
	NANO	NANOMETRICS INC [NANO]				(Check all applicable)			
(Last)	(First) (M	(iddle) 3. Date of	Earliest Tra	ansaction					
		(Month/D	ay/Year)				_X_ Director	109	6 Owner
C/O NANON BUCKEYE	1550 05/24/20	05/24/2013				Officer (giv below)	ve title Oth below)	er (specify	
	4. If Ame	4. If Amendment, Date Original				6. Individual or Joint/Group Filing(Check			
	Filed(Mor	Filed(Month/Day/Year)				Applicable Line)			
MILPITAS,	CA 95035						_X_ Form filed by Form filed by Person	One Reporting Po	
(City)	(State) (Zip) Tabl	e I - Non-D	erivative S	Securi	ties Ac	quired, Disposed	of, or Beneficia	lly Owned
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securi	ties		5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year) Execution		on Date, if TransactionAcquired (A) or			Securities	Form: Direct	Indirect	
(Instr. 3)		any	Code	Disposed	,	*	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3,	4 and	5)	Owned	Indirect (I)	Ownership
							Following	(Instr. 4)	(Instr. 4)
					(A)		Reported		
					or		Transaction(s) (Instr. 3 and 4)		
			Code V	Amount	(D)	Price	(msu. 5 and 4)		
Common	05/24/2013		A	6,930	A	\$0	6,930	D	

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

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

(1)

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2.			4.	5.	6. Date Exer	cisable and	7. Titl	le and	8. Price of	9. Nu
e Conversion	(Month/Day/Year)	Execution Date, if	Transact	ionNumber	Expiration D	ate	Amou	ınt of	Derivative	Deriv
or Exercise		any	Code	of	(Month/Day/	/Year)	Under	rlying	Security	Secui
Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e		Secur	ities	(Instr. 5)	Bene
Derivative				Securities	S		(Instr.	. 3 and 4)		Own
Security				Acquired						Follo
				(A) or						Repo
				Disposed						Trans
				of (D)						(Instr
				(Instr. 3,						
				4, and 5)						
								Amount		
					Date	Expiration	Title			
					Exercisable Date	Date	Title			
			Codo I	7 (A) (D)						
	e Conversion or Exercise Price of Derivative	e Conversion (Month/Day/Year) or Exercise Price of Derivative	e Conversion (Month/Day/Year) Execution Date, if or Exercise any Price of (Month/Day/Year) Derivative	e Conversion (Month/Day/Year) Execution Date, if Transact or Exercise any Code Price of (Month/Day/Year) (Instr. 8) Derivative Security	Conversion or Exercise any Code of Price of Derivative Security Month/Day/Year) Execution Date, if any Code of (Instr. 8) Derivative Security Month/Day/Year) Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Conversion (Month/Day/Year) Execution Date, if TransactionNumber Expiration Date or Exercise any Code of (Month/Day/Pear) Code of (Month/Day/Pear) Derivative Security Security Security Security Security Security Security Date	Conversion (Month/Day/Year) Execution Date, if TransactionNumber Expiration Date or Exercise Price of Oberivative Security (Month/Day/Year) (Instr. 8) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) Date Expiration Expiration Date (Month/Day/Year) Date Expiration Exercisable Date	Conversion (Month/Day/Year) Execution Date, if TransactionNumber Expiration Date Amore or Exercise any Code of (Month/Day/Year) Under Price of (Month/Day/Year) (Instr. 8) Derivative Securities (Instr. 8) Code of (Month/Day/Year) Under Security Securities (Instr. 8) Date Expiration Title Exercisable Date Title	Conversion or Exercise or Exercise Price of ODER or Exercise Price of ODER or Exercise ODER	Conversion or Exercise Price of Derivative Security Resolution Date, if any Code of (Month/Day/Year) (Instr. 8) Derivative Securities Resolution Date, if any Code of (Month/Day/Year) (Instr. 8) Derivative Securities Resolution Date (Month/Day/Year) (Instr. 8) Derivative Securities Resolution Date (Month/Day/Year) (Instr. 5) Derivative Securities Resolution Date (Month/Day/Year) (Instr. 5) Derivative Securities Resolution Date (Instr. 3 and 4) Resolution Date (Instr. 5) Resolution Date (Instr. 6) Resolution Date (Instr

Reporting Owners

Reporting Owner Name / Address	Relationships						
• 0	Director	10% Owner	Officer	Other			
Brown Edward J Jr C/O NANOMETRICS, INC. 1550 BUCKEYE DRIVE MILPITAS, CA 95035	X						

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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