

BAIN HOWARD A III
 Form 4
 February 23, 2011

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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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 *
BAIN HOWARD A III

 (Last) (First) (Middle)
**C/O NANOMETRICS, INC., 1550
 BUCKEYE DRIVE**

2. Issuer Name and Ticker or Trading Symbol
NANOMETRICS INC [NANO]

3. Date of Earliest Transaction
 (Month/Day/Year)
02/18/2011

5. Relationship of Reporting Person(s) to Issuer

 (Check all applicable)
 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)
 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	02/18/2011		M		10,333	A	\$ 7.28
Common Stock	02/18/2011		M		2,038	A	\$ 11.17
Common Stock	02/18/2011		M		833	A	\$ 11.63
Common Stock	02/18/2011		S		13,204	D	\$ 19.4043
							<u>(1)</u>

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

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SEC 1474
(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 Security (Instr. 3 and 4)	Amount or Number of Shares
Non-Qualified Stock Option (right to buy)	\$ 7.28	02/18/2011		M	10,333	<u>(2)</u> 04/01/2013	Common Stock	10,333
Non-Qualified Stock Option (right to buy)	\$ 11.17	02/18/2011		M	2,038	<u>(3)</u> 01/04/2017	Common Stock	2,038
Non-Qualified Stock Option (right to buy)	\$ 11.63	02/18/2011		M	833	<u>(4)</u> 01/05/2015	Common Stock	833

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BAIN HOWARD A III C/O NANOMETRICS, INC. 1550 BUCKEYE DRIVE MILPITAS, CA 95035	X			

Signatures

/s/ James P. Moniz,
Attorney-in-Fact
Date: 02/23/2011

**Signature of Reporting Person

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)

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The price in Column 4 is a weighted average sale price. The prices actually received ranged from \$19.40 to \$19.475. The reporting person will provide to the issuer, any security holder of the issuer, or the SEC staff, upon request, information regarding the number of shares sold at each price within the range.

- (2) The option becomes exercisable in three equal annual installments beginning on April 1, 2009.
- (3) The option became exercisable on January 4, 2011.
- (4) The option becomes exercisable in three annual installments beginning on January 5, 2011.

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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