NANOMETRICS INC

Form 4

November 13, 2007

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

3235-0287 Number:

January 31, Expires: 2005

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Check this box if no longer subject to Section 16.

Form 4 or Form 5

obligations may continue. See Instruction

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(b).

(Last)

(City)

Security

(Instr. 3)

1. Name and Address of Reporting Person * Crawford Bruce A

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

(Middle)

(Zip)

Execution Date, if

(Month/Day/Year)

3. Date of Earliest Transaction

NANOMETRICS INC [NANO]

Director

10% Owner Other (specify

1550 BUCKEYE DRIVE

(Month/Day/Year) 11/08/2007

X_ Officer (give title below) below)

Chief Operating Officer

(Street)

(First)

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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

MILPITAS, CA 95035

(State) 1. Title of 2. Transaction Date 2A. Deemed

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of 6. Ownership Securities Beneficially Owned (T) Following

7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

(A)

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

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.

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

1. Title of 3. Transaction Date 3A. Deemed 4. 5. Number 6. Date Exercisable and Derivative Conversion (Month/Day/Year) Execution Date, if Transaction of Derivative Expiration Date Security or Exercise any Code Securities (Month/Day/Year)

(Instr. 3 and 4)

7. Title and Amoun

Underlying Securiti

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8		Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)					
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Share
Non-qualified Stock Option	\$ 6.25	11/08/2007		A		6,250		12/08/2007	06/08/2014	Common Stock	6,25

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Crawford Bruce A 1550 BUCKEYE DRIVE MILPITAS, CA 95035

Chief Operating Officer

Signatures

(Right to buy)

/s/ Quentin B. Wright, by power of attorney

11/13/2007

**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).
 - On June 8, 2007, the reporting person was granted an option to purchase 25,000 shares of common stock. Twenty-five percent of the shares subject to the option shall begin vesting ratably monthly over a two-year period based on Nanometric's satisfaction of certain
- (1) performance criteria for each of the second, third and fourth fiscal quarters of 2007 and the second, third and fourth fiscal quarters combined. The performance criteria for the third fiscal quarter were satisfied on November 8, 2007, resulting in the vesting commencement of 6,250 shares on that date.

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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