WARD EDMOND R

Form 4

January 05, 2007

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

OMB APPROVAL

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

Form 5 obligations may continue.

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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * WARD EDMOND R

2. Issuer Name and Ticker or Trading Symbol

NANOMETRICS INC [NANO]

5. Relationship of Reporting Person(s) to

Issuer

(Last)

(First)

(Middle)

3. Date of Earliest Transaction

(Month/Day/Year) 01/03/2007

(Check all applicable)

X_ Director 10% Owner Officer (give title Other (specify below)

C/O NANOMETRICS, INC., 1550 **BUCKEYE DRIVE**

(Street)

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

MILPITAS, CA 94035

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. Code

(Instr. 8)

4. Securities TransactionAcquired (A) or Disposed of (D)

Code V Amount (D) Price

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial (I) Ownership

(Instr. 4)

(Instr. 4)

(A) or

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

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 Derivative Security

2. Conversion or Exercise

3. Transaction Date 3A. Deemed

(Month/Day/Year) Execution Date, if any

5. Number Transaction Derivative Code Securities

Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount Underlying Securitie (Instr. 3 and 4)

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	Acquired (A) or Disposed (D) (Instr. 3, and 5)	d of				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amour or Number of Shares
Non-Qualified Stock Option (right to buy)	\$ 8.29	01/03/2007		A		2,500		<u>(1)</u>	01/03/2012	Common Stock	2,50

Reporting Owners

Reporting Owner Name / Address	Kelationships							
	Director	10% Owner	Officer	Other				
WARD EDMOND R								
C/O NANOMETRICS, INC.	X							
1550 BUCKEYE DRIVE	Λ							
MILPITAS, CA 94035								

Signatures

/s/ William G.

Oldham 01/04/2007 **Signature of Date 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) The option becomes exercisable in three equal annual installments beginning on the first anniversary of the date of grant.

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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