Wright Quentin Form 4 August 03, 2007

FORM 4

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

Check this box if no longer subject to Section 16. Form 4 or Form 5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

obligations may continue. See Instruction 1(b).

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

2. Issuer Name and Ticker or Trading

NANOMETRICS INC [NANO]

(Print or Type Responses)

1. Name and Address of Reporting Person * Wright Quentin

5. Relationship of Reporting Person(s) to

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

Issuer

(First) (Middle) (Last)

3. Date of Earliest Transaction

(Month/Day/Year)

08/01/2007

Symbol

Director 10% Owner Other (specify

(Check all applicable)

X_ Officer (give title below) below) Interim CFO

(Street)

1550 BUCKEYE DRIVE

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

MILPITAS, CA 95035

(City) (State) (Zip) 2. Transaction Date 2A. Deemed

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

1.Title of Security (Instr. 3)

(Month/Day/Year) Execution Date, if

(Month/Day/Year)

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

Securities Beneficially Owned Following Reported

5. Amount of

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

Transaction(s) (Instr. 3 and 4)

Common

Stock

Code V Amount (D) Price

(A)

or

 $3,300^{(1)}$ D

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)

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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. Transactic 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 Amoun Underlying Securiti (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou or Numb of Share
Non-qualified Stock Option (Right to buy)	\$ 6.25	08/01/2007		A	6,250	09/01/2007	06/08/2014	Common	6,25

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Wright Quentin 1550 BUCKEYE DRIVE MILPITAS CA 95035			Interim CFO				

Signatures

/s/ Quentin B.
Wright

**Signature of Reporting Person

O8/03/2007

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 acquired pursuant to the Nanometrics Incorporated Employee Stock Purchase Plan and include 1,359 shares purchased on October 31, 2006 and 1,941 shares purchased on April 30, 2007.

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

(2) 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 second fiscal quarter were satisfied on August 1, 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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