

Crawford Bruce A
 Form 4/A
 March 12, 2009

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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 *
 Crawford Bruce A

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 1550 BUCKEYE DRIVE
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 02/25/2009

___ Director ___ 10% Owner
 ___X___ Officer (give title below) ___ Other (specify below)
 Chief Operating Officer

MILPITAS, CA 95035
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)
 02/27/2009

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

| 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 Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | | (A) or (D) | Code V Amount (D) Price | | |

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 | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Security (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|

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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 Sha |
|--|------------------|--|------|---|--------|-----|---------------------|--------------------|-----------------|------------------------------|
| Non-qualified Stock Option (Right to buy) | \$ 1.17 | 02/25/2009 | A | | 20,000 | | <u>(1)</u> | 02/25/2016 | Common Stock | 20,0 |

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

/s/ James Moniz, by power of attorney

03/12/2009

 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) One thirty-sixth (1/36th) of the shares shall vest and become exercisable in equal monthly installments starting on the monthly anniversary of the date of grant (February 25, 2009).

Remarks:

This amended Form 4 is being filed solely to add as an exhibit a Power of Attorney executed by Bruce A. Crawford on February 25, 2009.

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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