

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2009-01-26** | Period of Report: **2009-01-26**
SEC Accession No. **0001454522-09-000004**

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ISSUER

SEQUENOM INC

CIK: **1076481** | IRS No.: **770365889** | State of Incorporation: **DE** | Fiscal Year End: **1231**
SIC: **3829** Measuring & controlling devices, nec

Business Address
3595 JOHN HOPKINS CT
SAN DIEGO CA 92121
8582029000

REPORTING OWNER

BOMBARD ALLAN

CIK: **1454522**
Type: **4** | Act: **34** | File No.: **000-29101** | Film No.: **09546501**

Mailing Address Business Address
3595 JOHN HOPKINS COURT (858) 202-9000
SAN DIEGO CA 92121

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
 Expires: 02/28/2011
 Estimated average burden
 hours per response 0.5

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

| | | | | | | | |
|---|---------|----------|---|--|---|--|--|
| 1. Name and Address of Reporting Person BOMBARD ALLAN | | | 2. Issuer Name and Ticker or Trading Symbol SEQUENOM INC [SQNM] | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chief Medical Officer | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 01/26/2009 | | | | |
| 3595 JOHN HOPKINS COURT | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | | 6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person <input type="checkbox"/> Form Filed by More than One Reporting Person | | |
| (Street) | | | | | | | |
| SAN DIEGO, CA 92121 | | | | | | | |
| (City) | (State) | (Zip) | | | | | |

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 | | | |
| | | | | | | | | | | |

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 Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|---|-----|--|-----------------|---|--|--|--|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Incentive Stock Option (right to buy) | \$23.94 | 01/26/2009 | | A | | 14,093 | | (1) | 01/25/2019 | Common Stock | 14,093 | \$ 0 | 14,093 | D | |
| Non-Qualified Stock Option (right to buy) | \$23.94 | 01/26/2009 | | A | | 60,907 | | (1) | 01/25/2019 | Common Stock | 60,907 | \$ 0 | 60,907 | D | |

Explanation of Responses:

1. 25% of the shares subject to the Stock Option shall vest on 1/26/10, with the remainder vesting in 36 equal monthly installments until fully vested on 1/26/13.

Signatures

By: Jay File, as attorney-in-fact for For: Allan Bombard

01/26/2009

** Signature of Reporting Person

Date

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

* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.