

SECURITIES AND EXCHANGE COMMISSION

FORM 3

Filing Date: **2009-01-26** | Period of Report: **2009-01-26**
SEC Accession No. **0001454522-09-000003**

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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: **3** | Act: **34** | File No.: **000-29101** | Film No.: **09546499**

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

**UNITED STATES SECURITIES AND EXCHANGE
COMMISSION**

Washington, D.C. 20549

OMB APPROVAL	
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**INITIAL STATEMENT OF 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

1. Name and Address of Reporting Person BOMBARD ALLAN (Last) (First) (Middle) 3595 JOHN HOPKINS COURT (Street) SAN DIEGO, CA 92121 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/ Year) 01/26/2009	3. Issuer Name and Ticker or Trading Symbol SEQUENOM INC [SQNM]		
		4. 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		5. 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

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	2,960	D	

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/ Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Non-Qualified Stock Option (right to buy)	(1)	05/08/2014	Common Stock	7,000	\$3.55	D	

Explanation of Responses:

- 1. The shares subject to the Stock Option vested and became exercisable on 5/8/07.

Signatures

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

** Signature of Reporting Person

01/26/2009

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.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of Clarke Neumann, Paul Hawran, and Jay File, signing individually, as the undersigneds true and lawful attorney in fact and agent to:

1. execute for and on behalf of the undersigned, an officer or director of Sequenom, Inc. (the Company), Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended (the Exchange Act), and the rules thereunder;
2. do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute such Form 3, 4 or 5, complete and execute any amendment or amendments thereto, and timely file such forms or amendments with the U.S. Securities and Exchange Commission and any stock exchange or similar authority; and
3. take any other action of any nature whatsoever in connection with the foregoing, which in the opinion of such attorney in fact may be of benefit, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney in fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney in fact may approve in such attorney in fact's discretion.

The undersigned hereby grants to each such attorney in fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney in fact, or such attorney in fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys in fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigneds responsibilities to comply with Section 16 of the Exchange Act, and the undersigned hereby agrees to indemnify and hold harmless each of the attorneys in fact and the Company from any liabilities or damages that arise out of the performance or failure to perform any of the actions described herein.

This Power of Attorney shall remain in full force and effect until the earliest to occur of (a) the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigneds holdings of and transactions in securities issued by the Company, (b) revocation by the undersigned in a signed writing delivered to the foregoing attorneys in fact or (c) as to any attorney in fact individually, until such attorney in fact shall no longer be employed by the Company.

In Witness Whereof, the undersigned has caused this Power of Attorney to be executed as of this 16TH day of January, 2009.

ss: ALLAN BOMBARD

[Signature]

ALLAN BOMBARD

[Name]