

SECURITIES AND EXCHANGE COMMISSION

FORM 4

Statement of changes in beneficial ownership of securities

Filing Date: **2013-01-28** | Period of Report: **2013-01-25**
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REPORTING OWNER

SMITH JOSEPH H

CIK: **1240656**

Type: **4** | Act: **34** | File No.: **000-30755** | Film No.: **13551844**

ISSUER

CEPHEID

CIK: **1037760** | IRS No.: **770441625** | State of Incorp.: **CA** | Fiscal Year End: **1231**
SIC: **3826** Laboratory analytical instruments

Mailing Address
*904 CARIBBEAN DRIVE
SUNNYVALE CA 94089*

Business Address
*904 CARIBBEAN DRIVE
SUNNYVALE CA 94089
4085414191*

FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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 SMITH JOSEPH H | | | 2. Issuer Name and Ticker or Trading Symbol CEPHEID [CPHD] | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) EVP, Bus Dev and GC | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 01/25/2013 | | | 6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person ____ Form Filed by More than One Reporting Person | | |
| C/O CEPHEID, 904 CARIBBEAN DRIVE | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | | | | | |
| (Street) SUNNYVALE, CA 94089 | | | | | | | | |
| (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 | | | |
| Common Stock | 01/25/2013 | | M ⁽¹⁾ | | 250 | A | \$ 0 | 7,411 | D | |
| Common Stock | 01/25/2013 | | F ⁽²⁾ | | 110 | D | \$37.83 | 7,301 | D | |

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 |
| Restricted Stock Units | \$ 0 ⁽³⁾ | 01/25/2013 | | M ⁽¹⁾ | | 250 | | (4) | (4) | Common Stock | 250 | \$ 0 | 2,250 | D | |

Explanation of Responses:

1. Vesting of restricted stock units ("RSUs") granted to the Reporting Person on April 25, 2011.
2. Exempt transaction pursuant to Section 16b-3(e) - payment of exercise price or tax liability by delivering or withholding securities incident to the receipt, exercise or vesting of a security issued in accordance with Rule 16b-3. All of the shares reported as disposed of in this Form 4 were relinquished by the Reporting Person and cancelled by the Issuer in exchange for the Issuer's agreement to pay federal and state tax withholding obligations of the Reporting Person resulting from the vesting of RSUs. The Reporting Person did not sell or otherwise dispose of any of the shares reported on this Form 4 for any reason other than to cover required taxes.
3. Each RSU represents a contingent right to receive one share of the Issuer's common stock.
4. 25% of the RSUs vest on the one-year anniversary of the grant date, then 6.25% of the RSUs vest each quarterly anniversary thereafter, until such time as the RSUs are 100% vested, subject to the continuing employment of the Reporting Person on each vesting date. Shares of the Issuer's common stock will be delivered to the Reporting Person upon vesting.

Signatures

/s/ Joseph H. Smith

** Signature of Reporting Person

01/28/2013

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.