

JAMES SUSAN M.
Form 4
May 10, 2011

FORM 4

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

OMB APPROVAL

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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 *
JAMES SUSAN M.

2. Issuer Name and Ticker or Trading Symbol
COHERENT INC [COHR]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
P. O. BOX 54980
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
05/06/2011

Director 10% Owner
 Officer (give title below) Other (specify below)

SANTA CLARA, CA 95056

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

6. Individual or Joint/Group Filing (Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(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 | Price | |
| Common Stock | 05/06/2011 | | M | | 6,000 | A \$ 15.21 | 8,000 D |
| Common Stock | 05/06/2011 | | S | | 6,000 | D \$ 58.85 ⁽¹⁾ | 2,000 D |
| Common Stock | 05/09/2011 | | M | | 12,000 | A \$ 27.93 | 14,000 D |
| Common Stock | 05/09/2011 | | S | | 12,000 | D \$ 58.6333 ⁽²⁾ | 2,000 D |

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

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(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 (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 Underlying Securities (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title Amount or Number of Shares |
| Non Qualified Stock Option (right to buy) | \$ 15.21 | 05/06/2011 | | M | 6,000 | 03/11/2011 03/11/2019 | Common Stock 6,000 |
| Non Qualified Stock Option (right to buy) | \$ 27.93 | 05/09/2011 | | M | 12,000 | 03/18/2011 03/19/2018 | Common Stock 12,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| JAMES SUSAN M. P. O. BOX 54980 SANTA CLARA, CA 95056 | | X | | |

Signatures

Bret DiMarco, General Counsel & Power of Attorney 05/10/2011

__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) Represents the weighted average sales price for the shares. The range of prices for such sales was \$58.75 to \$58.90.

(2) Represents the weighted average sales price for the shares. The range of prices for such sales was \$58.50 to \$59.00.

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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