

SIMONET HELENE
Form 4
February 16, 2010

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 *
SIMONET HELENE

(Last) (First) (Middle)

P. O. BOX 54980

(Street)

SANTA CLARA, CA 95056-0980

(City) (State) (Zip)

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

3. Date of Earliest Transaction
(Month/Day/Year)
02/11/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
Exec VP and CFO

6. Individual or Joint/Group Filing(Check Applicable Line)
 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 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	(D)	Price
Common Stock ⁽¹⁾	02/11/2010		M		40,000	A	\$ 26.41
							60,123
Common Stock	02/11/2010		S		40,000	D	\$ 30.2672
							20,123
Common Stock ⁽¹⁾	02/12/2010		M		5,000	A	\$ 26.41
							25,123
Common Stock	02/12/2010		S		5,000	D	\$ 30.2
							20,123
Common Stock ⁽¹⁾	02/16/2010		M		21,214	A	\$ 26.41
							41,377

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Common Stock	02/16/2010	S	21,214	D	\$ (3)	30.3555	20,123	D
Common Stock ⁽¹⁾	02/16/2010	M	3,786	A	\$	26.41	23,909	D
Common Stock	02/16/2010	S	3,786	D	\$ (3)	30.3555	20,123	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 Security (Instr. 3 and 4)
				Code	V (A) (D)	Date Exercisable Expiration Date	Title
Non-Qualified Stock Option (right to buy)	\$ 26.41	02/11/2010		M	40,000	03/25/2007 03/25/2010	Common Stock 40
Non-Qualified Stock Option (right to buy)	\$ 26.41	02/12/2010		M	5,000	03/25/2007 03/25/2010	Common Stock 5,
Non-Qualified Stock Option (right to buy)	\$ 26.41	02/16/2010		M	21,214	03/25/2007 03/25/2010	Common Stock 21
Incentive Stock Option (right to buy)	\$ 26.41	02/16/2010		M	3,786	03/25/2007 03/25/2010	Common Stock 3,

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

SIMONET HELENE
P. O. BOX 54980
SANTA CLARA, CA 95056-0980

Exec VP and CFO

Signatures

Helene Simonet 02/16/2010

 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) This option was set to expire in March 2010.
- (2) Represents the weighted average sales price for the shares. The range of prices for such sales was \$30.24 to \$30.38.
- (3) Represents the weighted average sales price for the shares. The range of prices for such sales was \$30.35 to \$30.43.

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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