

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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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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