

SIMONET HELENE  
Form 4  
May 10, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

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)  
05/06/2011

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 (A) or (D) Price			
Common Stock	04/29/2011		J	V 509 <sup>(1)</sup> A \$ 36.3375	31,182	D	
Common Stock	05/06/2011		M	2,641 A \$ 26.16	33,823	D	
Common Stock	05/06/2011		S	2,641 <sub>(2)</sub> D \$ 60.024 <sub>(3)</sub>	31,182	D	
Common Stock	05/06/2011		S	5,140 <sub>(2)</sub> D \$ 59.5312 <sub>(4)</sub>	26,042	D	
Common Stock	05/10/2011		M	6,692 A \$ 26.16	32,743	D	

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Common Stock      05/10/2011      S      6,692<sup>(2)</sup>      D      \$ 59.9823<sup>(5)</sup>      26,042      D

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

**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 control number.**

SEC 1474  
(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)	Amount or Number of Shares
Non-Qualified Stock Option (right to buy)	\$ 26.16	05/06/2011		M	2,641	11/20/2010 11/20/2016	Common Stock	2,641
Non-Qualified Stock Option (right to buy)	\$ 26.16	05/10/2011		M	6,692	11/20/2010 11/20/2016	Common Stock	6,692

## 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      05/10/2011  
 \*\*Signature of      Date  
 Reporting Person

## 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) Purchase under employee stock purchase plan.
- (2) Sold Pursuant to a Rule 10b5-1 sales plan adopted on February 25, 2011.
- (3) Represents the weighted average sales price for the shares. The range of prices for such sales was \$59.95 to \$60.355.
- (4) Represents the weighted average sales price for the shares. The range of prices for such sales was \$58.95 to \$60.355.
- (5) Represents the weighted average sales price for the shares. The range of prices for such sales was \$59.95 to \$60.07.

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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