SIMONET HELENE

Form 4

December 06, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

OMB APPROVAL

3235-0287

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0.5

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subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

if no longer

Check this box

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * SIMONET HELENE			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)	3. Date of Earliest Transaction	(Check all applicable)			
			(Month/Day/Year)	Director 10% Owner			
P. O. BOX 54980			12/02/2010	_X_ Officer (give title Other (specify below)			
				Exec VP and CFO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person			
SANTA CLARA, CA 95056-0980				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 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Disposed of (D) Securities Ownership Indirect (Instr. 3) (Instr. 3, 4 and 5) Code Beneficially Form: Beneficial (Month/Day/Year) (Instr. 8) Owned Direct (D) Ownership Following or Indirect (Instr. 4) Reported (A) Transaction(s) (Instr. 4)

		Code	V	Amount	(D)	Price	(Instr. 3 and 4)	
Common Stock	12/02/2010	M		9,192	A	\$ 35.01	37,266	D
Common Stock	12/02/2010	S		9,192 (1)	D	\$ 43.0081 (2)	28,074	D
Common Stock	12/03/2010	M		25,000	A	\$ 32.95	53,074	D
Common Stock	12/03/2010	S		25,000 (1)	D	\$ 44	28,074	D
Common Stock	12/03/2010	M		15,000	A	\$ 35.01	43,074	D

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Common 15,000 12/03/2010 S \$ 44 28,074 D Stock

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. Transactio Code (Instr. 8)	5. Number of or 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)	\$ 35.01	12/02/2010		M		9,192	03/30/2008	03/30/2012	Common Stock	9,192
Non Qualified Stock Option (right to buy)	\$ 32.95	12/03/2010		M		25,000	04/15/2009	10/03/2013	Common Stock	25,000
Non Qualified Stock Option (right to buy)	\$ 35.01	12/03/2010		M		15,000	03/30/2008	03/30/2012	Common Stock	15,000

Reporting Owners

Relationships Reporting Owner Name / Address

> 10% Owner Officer Other Director

> > Exec VP and CFO

Reporting Owners 2 SIMONET HELENE P. O. BOX 54980 SANTA CLARA, CA 95056-0980

Signatures

/s/ Bret DiMarco, General Counsel & Power of Attorney

12/06/2010

**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) Sold Pursuant to a Rule 10b5-1 sales plan adopted on May 28, 2010.
- (2) Represents the weighted average sales price for the shares. The range of prices for such sales was \$43.00 to \$43.08.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Signatures 3