DiMarco Bret Form 4 December 17, 2010

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL** 

**OMB** 3235-0287 Number:

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue. See Instruction

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 * DiMarco Bret			2. Issuer Name <b>and</b> 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 an applicable)			
			(Month/Day/Year)	Director 10% Owner			
PO BOX 54980			12/15/2010	_X_ Officer (give title Other (specify below)			
				Exec VP & General Counsel			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
SANTA CLARA, CA 95056-0980				_X_ 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. Transactic Code (Instr. 8)	4. Securities Acquired (A) our Disposed of (D) (Instr. 3, 4 and 5)  (A) or Amount (D) Price			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)	
Common Stock	12/15/2010		M	3,511	A	\$ 26.16	8,903	D		
Common Stock	12/15/2010		S	3,511 (1)	D	\$ 45.0015 (2)	5,392	D		

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

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# 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. Transacti 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)	\$ 26.16	12/15/2010		M		3,511	11/20/2010	11/20/2016	Common Stock	3,511

# **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

DiMarco Bret PO BOX 54980 SANTA CLARA, CA 95056-0980

Exec VP & General Counsel

# **Signatures**

Bret DiMarco 12/17/2010

\*\*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 \$45.00 to \$45.01.

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.

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