DiMarco Bret Form 4 November 12, 2010

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB APPROVAL** OMB

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obligations

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 may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and A DiMarco Br	•	orting Person *	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 54	980		10/29/2010	_X_ Officer (give title Other (specify below)			
(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 CL	ARA, CA 9	5056-0980		Form filed by More than One Reporting			

(City)	(State)	(Zip) Tab	le I - Noi	n-I	Derivative	Secu	rities Acquii	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3.		4. Securities Acquired (A) onor Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	or (D)	Price	(Instr. 3 and 4)	(Instr. 1)	
Common Stock	10/29/2010		J	V	274 (1)	A	\$ 32.504	1,769	D	
Common Stock	11/10/2010		M		3,987	A	\$ 32.95	5,756	D	
Common Stock	11/10/2010		S		3,987 (2)	D	\$ 43.4661 (3)	1,769	D	
Common Stock	11/11/2010		M		2,734	A	\$ 32.95	4,503	D	
Common Stock	11/11/2010		S		2,734 (2)	D	\$ 43.2139	1,769	D	

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(4) Common 11/12/2010 M 100 \$ 32.95 1,869 D Stock Common 11/12/2010 S 100 (2) D \$ 43 D 1,769 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. Transactic Code (Instr. 8)	Securities		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)	\$ 32.95	11/10/2010		M		3,987	04/15/2009	10/03/2013	Common Stock	3,987
Non Qualified Stock Option (right to buy)	\$ 32.95	11/11/2010		M		2,734	04/15/2009	10/03/2013	Common Stock	2,734
Non Qualified Stock Option (right to buy)	\$ 32.95	11/12/2010		M		100	04/15/2009	10/03/2013	Common Stock	100

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## **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

DiMarco Bret

PO BOX 54980 Exec VP & General Counsel

SANTA CLARA, CA 95056-0980

## **Signatures**

Bret DiMarco 11/12/2010

\*\*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 May 28, 2010.
- (3) Represents the weighted average sales price for the shares. The range of prices for such sales was \$43.19 to \$43.66.
- (4) Represents the weighted average sales price for the shares. The range of prices for such sales was \$43.00 to \$43.41.

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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