

DiMarco Bret
Form 4
September 30, 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 *
DiMarco Bret

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 (Month/Day/Year)
04/30/2010

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)

Exec VP & General Counsel

PO BOX 54980

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

SANTA CLARA, CA 95056-0980

(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. 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	04/30/2010		J	V 699 ⁽¹⁾ A \$ 21.2925	5,382	D	
Common Stock	09/28/2010		M	10,000 A \$ 33.3	15,382	D	
Common Stock	09/28/2010		S	10,000 ⁽²⁾ D 40.2821 ⁽³⁾	5,382	D	
Common Stock	09/28/2010		M	10,000 A \$ 32.95	15,382	D	
Common Stock	09/28/2010		S	10,000 ⁽²⁾ D \$ 40.2821	5,382	D	

(3)

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 Securities (Instr. 3 and 4)	Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
Non Qualified Stock Option (right to buy)	\$ 33.3	09/28/2010		M	10,000	06/07/2008 06/07/2012	Common Stock	10,000	
Non Qualified Stock Option (right to buy)	\$ 32.95	09/28/2010		M	10,000	04/15/2009 10/03/2013	Common Stock	10,000	

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

/s/ John Ambroseo, Pursuant to Power of Attorney 09/30/2010

__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) 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 \$40.00 to \$40.45.

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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