

AMBROSEO JOHN  
Form 4  
February 16, 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 \*  
AMBROSEO JOHN

(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)  
02/12/2010

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)  
Pres. and CEO

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 <sup>(1)</sup>	02/12/2010		M		125,000	A	\$ 26.41
							199,180
Common Stock	02/12/2010		S		125,000	D	\$ 30.0974
							74,180
Common Stock <sup>(1)</sup>	02/16/2010		M		21,214	A	\$ 26.41
							95,394
Common Stock	02/16/2010		S		21,214	D	\$ 30.2213
							74,180
	02/16/2010		M		3,786	A	\$ 26.41
							77,966

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Common  
Stock <sup>(1)</sup>

Common Stock	02/16/2010	S	3,786	D	\$ 30.2213 <u>(3)</u>	74,180	D
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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)			
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount
Non-Qualified Stock Option (right to buy)	\$ 26.41	02/12/2010		M		125,000		03/25/2007	03/25/2010	Common Stock	1
Non-Qualified Stock Option (right to buy)	\$ 26.41	02/16/2010		M		21,214		03/25/2007	03/25/2010	Common Stock	2
Incentive Stock Option (right to buy)	\$ 26.41	02/16/2010		M		3,786		03/25/2007	03/25/2010	Common Stock	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
AMBROSEO JOHN P.O. BOX 54980 SANTA CLARA, CA 95056-0980	X		Pres. and CEO	

## Signatures

John Ambroseo	02/16/2010
**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) This option was set to expire in March 2010.

(2) Represents the weighted average sales price for the shares. The range of prices for such sales was \$29.9982 to \$30.3373.

(3) Represents the weighted average sales price for the shares. The range of prices for such sales was \$30.081 to \$30.400.

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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