

HART JOHN H

Form 4

September 23, 2010

FORM 4
UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
HART JOHN H

(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)
09/21/2010

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 ____X____ Other (specify
below) below)

Former Director

6. Individual or Joint/Group Filing(Check
Applicable Line)
X 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)
Common Stock	09/21/2010		M	16,500	A \$ 19.06	23,000	D
Common Stock	09/21/2010		S	16,500	D \$ 39.802 (1)	6,500	D
Common Stock	09/22/2010		M	6,000	A \$ 15.21	12,500	D
Common Stock	09/22/2010		S	6,000	D \$ 39.3088 (2)	6,500	D
Common Stock	09/23/2010		S	4,500	D \$ 39.1766	2,000	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)			
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Non Qualified Stock Option (right to buy)	\$ 19.06	09/21/2010		M		16,500		03/27/2006	04/01/2012	Common stock	16,500
Non Qualified Stock Option (right to buy)	\$ 15.21	09/22/2010		M		6,000		03/31/2010	04/01/2012	Common Stock	6,000

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

HART JOHN H
P. O. BOX 54980
SANTA CLARA, CA 95056-0980

Former Director

Signatures

/s/ Bret DiMarco, Pursuant to Power of
Attorney

09/23/2010

__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) Represents the weighted average sales price for the shares. The range of prices for such sales was \$39.664187 to \$39.91.

(2) Represents the weighted average sales price for the shares. The range of prices for such sales was \$39.10 to \$39.7006.

(3) Represents the weighted average sales price for the shares. The range of prices for such sales was \$39.15 to \$39.25.

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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