

Sechrist Paul F
 Form 4
 November 16, 2012

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2015
 Estimated average burden hours per response... 0.5

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 *
 Sechrist Paul F

(Last) (First) (Middle)
 5100 PATRICK HENRY DR
 (Street)

SANTA CLARA,, CA 95054

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 COHERENT INC [COHR]

3. Date of Earliest Transaction
 (Month/Day/Year)
 11/14/2012

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)
 EVP Worldwide Sales & Services

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 Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	11/14/2012		M	1,260	A \$ 0	19,116	D
Common Stock	11/14/2012		F	447 ⁽¹⁾	D \$ 42.28	18,669	D
Common Stock	11/14/2012		M	280	A \$ 0	18,949	D
Common Stock	11/14/2012		F	100 ⁽¹⁾	D \$ 42.28	18,849	D

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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)	8. An or Nu of Sha
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	
Restricted Stock Units	\$ 0	11/14/2012		A	8,900	(2)	11/14/2014	Common Stock	8.
Performance Restricted Stock Units	\$ 0	11/14/2012		A	4,400	(3)	11/13/2015	Common Stock	4.
Performance Restricted Stock Units	\$ 0	11/14/2012		M	1,260	11/14/2012	11/14/2012	Common Stock	1.
Performance Restricted Stock Units	\$ 0	11/14/2012		M	280	11/14/2012	11/14/2012	Common Stock	2.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Sechrist Paul F 5100 PATRICK HENRY DR SANTA CLARA,, CA 95054				EVP Worldwide Sales & Services

Signatures

/s/ Bret DiMarco, General Counsel & Power of Attorney
11/16/2012

**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 shares withheld to satisfy minimum tax withholding obligations for released performance restricted stock units.

(2) This Restricted Stock Unit award vests over two years with one half of the grant vesting on each of the subsequent anniversaries of the grant.

(3) This Restricted Stock Performance Unit award vests after the three year anniversary of the grant based on the relative performance of the underlying stock versus the Russell 2000 Index for the 90 trading days on and prior to November 13, 2015 versus the same 90 trading day period ending November 13, 2012. The number of shares in the table reflects the number of RSUs at target. The actual range of RSUs is 0-200% of the target number, depending upon what achievement, if any, results at the measurement date.

(4) 1260 shares received out of a possible 3000 maximum share payout. Derivatives beneficially owned total reduced by the 1740 shares not earned.

(5) 280 shares received out of a possible 666 maximum share payout. Derivatives beneficially owned total reduced by the 386 shares not earned.

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.