MILLER SCOTT H Form 4 April 11, 2005

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

OMB 3235-0287 Number:

January 31, Expires: 2005

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response... 0.5

if no longer subject to Section 16. Form 4 or

Check this box

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person MILLER SCOTT H	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
(Last) (First) (Middle	COHERENT INC [COHR]	(Check all applicable)		
P. O. BOX 54980	3. Date of Earliest Transaction (Month/Day/Year) 04/07/2005	Director 10% Owner _X_ Officer (give title Other (specification)) Sr VP and Gen Counsel		
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person		
SANTA CLARA, CA 95056-0986 (City) (State) (Zip)		Form filed by More than One Reporting Person		

`	• /	` /	1 able 1 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned								
1.Title	of	2. Transaction Date	2A. Deemed	3.	4. Securit	ties		5. Amount of	6. Ownership	7. Nature of	
Securit	y	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired	(A) o	r	Securities	Form: Direct	Indirect	
(Instr.	3)		any	Code Disposed of (D)		Beneficially	(D) or	Beneficial			
			(Month/Day/Year)	(Instr. 8)	(Instr. 3,	4 and	5)	Owned	Indirect (I)	Ownership	
								Following	(Instr. 4)	(Instr. 4)	
						()		Reported			
						(A)		Transaction(s)			
				Code V	Amount	or (D)	Price	(Instr. 3 and 4)			
Comr		04/07/2005		A	2,300	A	<u>(1)</u>	43,085	D		

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

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/Year)		7. Title and Ame Underlying Sect (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	An or No of Sh
Incentive Stock Option (right to buy)	\$ 33.71	04/07/2005		A	354	04/07/2007	04/07/2011	Common Stock	
Non-Qualified Stock Option (right to buy)	\$ 33.71	04/07/2005		A	8,646	04/07/2006(2)	04/07/2011	Common Stock	8

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

MILLER SCOTT H P. O. BOX 54980 SANTA CLARA, CA 95056-0980

Sr VP and Gen Counsel

Signatures

Scott H. Miller 04/11/2005

**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) These share are a restricted stock award. The forfeiture right expires on April 7, 2008.
- (2) These shares become exercisaable 4,500 shares April 7, 2006 and 4,156 shares April 7, 2007, respectively.

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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