FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ngton, D.C. 20549	OMB APPROVAL

l	OMB Number:	3235-0287
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l	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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					UI Sec	11011 30(11)	oi tile	invesiment v	Com	party Act	JI 1940							
1. Name and Address of Reporting Person* <u>Hooven Michael D</u>					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
													X Directo	r 10%		10% Ow	ner	
(Last)	`	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/19/2010									Officer (give title Cbelow) b			pecify	
7778 BE	NNINGTO	N DRIVE		L														
						4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable					
(Street)												Line	,		D			
CINCIN	NATI O	Н	45241											,		rting Persor		
				—— I									Form t Persor		e tnan	One Repor	ting	
(City)	(S	tate)	(Zip)															
												<i>a</i>						
		Iai	ole I - Non	-Derivat	ive S	ecuritie	s Ac	quirea, D	usp	osea o	t, or Ber	neficial	y Owned					
Date				2. Transact Date (Month/Day	Execution Date,			Code (Instr. 5)				Beneficia Owned F	es ally Following	Form	: Direct I Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership		
							0.4.		Amount (A) or		Builde	Reported Transact				(Instr. 4)		
								Code		Amount	(D)	Price	(Instr. 3	and 4)				
			Table II - D					uired, Dis					Owned					
	1			e.g., pu	is, ca	<u> </u>							1				1	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/\	Cod	nsaction le (Instr.	of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly G	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Date	E	xpiration		Amount or Number of						
				Cod	e V	(A)	(D)	Exercisable		ate	Title	Shares						
Stock Option (right to	\$5.15	05/19/2010		A		10,000		05/19/2011 ⁽¹) 05	5/19/2020	Common Stock	10,000	(2)	10,000)	D		

Explanation of Responses:

- 1. Exercisable cumulatively at a rate of 33.33% per annum commencing on the earlier of (i) the anniversary of the date of grant and (ii) the date on which the Company's annual meeting of stockholders is held that year, provided the Reporting Person is a director immediately prior to such annual meeting.
- 2. Not applicable

/s/ Julie A. Piton For: Michael D. Hooven

05/20/2010

** Signature of Reporting Person

Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.