FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OMB APPROVAL OMB Number: 3238

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	OMB Number:	3235-0287								
	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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person*  HARRISON DONALD C					2. Issuer Name <b>and</b> Ticker or Trading Symbol AtriCure, Inc. [ ATRC ]						(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
HARRISON DONALD C													r		10% Ow	ner	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 05/15/2012							Officer below)	(give title		Other (spector)	pecify	
9250 OLD INDIAN HILL RD																	
					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street)											- 1 '		led by One	Danor	ting Darson		
INDIAN	HILL O	H	45243										led by One	•	J		
-												Person		: IIIaII (	эне кероп	ing	
(City)	(S	tate)	(Zip)														
		Tal	ole I - Non-D	erivativ	/e Se	curitie	s Ac	quired, Di	sposed o	f, or Ber	neficially	y Owned					
Date				Transactio tte onth/Day/Y	Execution Date,		Code (Instr. 5)					es Formally (D) (Following (I) (I		Direct II Indirect E tr. 4) C	7. Nature of Indirect Beneficial Ownership		
								Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)			Instr. 4)	
			Table II - De (e.ç					uired, Disp s, options,	,		,	Owned				•	
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)	Code	Transaction Code (Instr.		ve es d ed nstr.	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 Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares						
Stock Option (right to buy)	\$8.04	05/15/2012		A		10,000		05/15/2013 <sup>(1)</sup>	05/15/2022	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/ Sarah Luken as Attorney-in-

Fact for Donald C. Harrison, 05/17/2012

M.D

\*\* 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.