Hooven Michael D Form 4 September 07, 2012

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

January 31, Expires: 2005

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OMB APPROVAL

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Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

(Last)

1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading Hooven Michael D Issuer Symbol AtriCure, Inc. [ATRC] (First) (Middle)

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

7778 BENNINGTON DR 09/07/2012

> 4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

(Check all applicable)

X Director 10% Owner Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)

Person

X Form filed by One Reporting Person Form filed by More than One Reporting

CINCINNATI, OH 45241

(Street)

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of Form: Direct Indirect Securities (Instr. 3) Code (D) Beneficially (D) or Beneficial any (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) (Instr. 3 and 4) Code V Amount (D) Price Common 09/07/2012 P 1,215 752,848 D Stock

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)	4. Transaction Code (Instr. 8)	of Derivativ Securities Acquired (A) or Disposed of (D)	Expiration Da (Month/Day/ e	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans (Instr
			Code V	(Instr. 3, 4, and 5) (A) (D)	Date Exercisable	Expiration Date	Title Amor or Numl of Share	ber	

Reporting Owners

Reporting Owner Name / Address	Relationships						
r g	Director	10% Owner	Officer	Other			
Hooven Michael D							
7778 BENNINGTON DR	X						
CINCINNATI, OH 45241							

Signatures

/s/ M. Andrew Wade as attorney-in-fact for Michael D.
Hooven

09/07/2012

**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).

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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