## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [	D.C.	20549
---------------	------	-------

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: 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

Name and Address of Reporting Person*     Lucky James L						2. Issuer Name <b>and</b> Ticker or Trading Symbol AtriCure, Inc. [ ATRC ]									heck all a Dir	hip of Reportir pplicable) ector icer (give title	10%	o Issuer o Owner er (specify
(Last) (First) (Middle) 6217 CENTRE PARK DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 07/29/2012								A be	ow) P, Regulatory	belo	w) i		
(Street) WEST CHESTE	ER OI	H 4	15069		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) <mark>X</mark> Fo Fo	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person			
(City)	(St		Zip)															
		Tabl	e I - Nor	n-Deri\	ative	Sec	uritie	s Acq	uired,	Dis	posed o	f, or	Ben	eficia	Ily Ow	ned	3	
1. Title of Security (Instr. 3) 2. Transar Date (Month/Da					ay/Year) Execut		A. Deemed execution Date, any Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			d Secu Ben Own	nount of irities eficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership	
									Code	v	Amount (A) or (D)		Price	Tran	orted saction(s) r. 3 and 4)		(Instr. 4)	
Common Stock 07/29/					9/2012	12 F 2,166 <sup>(1)</sup> D		\$8.4	43	46,357	D							
		Та									sed of, onvertib				/ Owne	d		
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	Date,	4. Transaction Code (Instr. 8)		of		6. Date Exercisabl Expiration Date (Month/Day/Year)		e Amount of		str. 3	8. Price o Derivative Security (Instr. 5)		Ownersh Form: Direct (D) or Indirec (I) (Instr.	Beneficial Ownership t (Instr. 4)	
						v					Expiration Date	Title	or Nur of	ount nber res				

## **Explanation of Responses:**

1. The Reporting Person has elected to transfer these shares to the Company to satisfy the tax withholding obligation incurred upon the vesting and release of shares previously acquired pursuant to a Restricted Stock Award.

/s/ James L. Lucky

07/31/2012

\*\* 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.

## POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of M. Andrew Wade, Robert Ward and Jeanette Yacucci signing singly, the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, Forms 3, 4 and 5 in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder with respect to the undersigned's beneficial ownership of securities of AtriCure, Inc. (the "Company").
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 and 5 and timely file such form with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorney-in-fact, in serving in such capacity at the request of the undersigned, are not assuming any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall not supersede any power of attorney previously executed by the undersigned and shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact; provided, however, that this Power of Attorney does hereby revoke and supersede any power of attorney appointing Julie A. Piton or Sarah Wichman.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 22 day of June, 2012.

By:/s/ James Lucky