FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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 and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									Check	all app	p of Reportin blicable) ctor er (give title	ng Per	10% C	
(Last) (First) (Middle) 6033 SCHUMACHER PARK DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 07/29/2009									X	belov	v) `	7 Affa	below) ffairs and QA	
(Street) WEST CHESTE			5069		4. If	If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					on	
(City)	(St		Zip)																	
		Tabl	e I - Nor	n-Deriva	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	fici	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,		Transaction Disposed Of (Code (Instr. 5)			ties Acquired (A) d Of (D) (Instr. 3,				5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount		(A) or (D)	Price	•	Transaction(s) (Instr. 3 and 4)				(111501.4)
Common Stock 07/29/						29/2009					28,00	0	A	\$0	\$0(1)		43,503(2)		D	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	ivative Conversion Date Execution Date urity or Exercise (Month/Day/Year) if any		Date,	4. Transaction Code (Instr. 8)		n of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expiration (Month/L) Date Exercise	e Amount of			ount nber			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	F C O (I	.0. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

- 1. Mr. Lucky acquired these shares pursuant to a Restricted Stock Award under the AtriCure, Inc. 2005 Equity Incentive Plan. The shares will vest 25% annually over four years.
- 2. This figure includes 1,500 shares acquired pursuant to the AtriCure, Inc. 2008 Employee Stock Purchase Plan for the six month period ending June 30, 2009.

/s/ Julie A. Piton as Attorneyin-Fact for James L. Lucky

07/31/2009

** 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.