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
notruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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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

(Last) (First) (Middle) 6217 CENTRE PARK DRIVE 3. Date of Earliest Transaction (Month/Day/Year) (Street) WEST CHESTER OH 45069 Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Instr. 3) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Following Reported (Instr. 3) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Following (Instr. 4) (Month/Day/Year) (Instr. 3) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Following (Instr. 4) (Month/Day/Year) (Instr. 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Following (Instr. 4) (Month/Day/Year) (Instr. 5) (Instr. 3) 3. Date of Earliest Transaction (Month/Day/Year) (Instr. 3) 4. If Amendment, Date of Original Filed (Month/Day/Year) (Instr. 3) 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) (Instr. 4) (Instr. 4) (Instr. 4) (Instr. 4) (Instr. 5) (Instr. 3) (Instr. 4) (Instr. 5) (Instr. 5) (Instr. 6)	1. Name and Address of Reporting Person* <u>Lucky James L</u>					2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]									Check	all app	olicable) ctor	ıg Persoı	Person(s) to Issuer 10% Owner Other (specif		
WEST CHESTER OH 45069 Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) Common Stock Table II - Derivative Securities Acquired, Disposed of, Or Beneficially Owned 2. Transaction Date (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed of (D) (Instr. 3, 4 and 5) Table II - Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3 and 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (C.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Securities Acquired, Disposed of, or Beneficially Owned (C.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Securities Acquired (Month/Day/Year) Price of Derivative Securities Acquired (Month/Day/Year) (Instr. 3) 3. Transaction (D) Table II - Derivative Securities Acquired (D) Table II - Derivative Securities (D) Table II - Derivative Se																X	belov	,			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year) 3. Transaction Date (I) (Instr. 3, 4 and Securities Beneficially Owned Following Reported Transaction(S) (Instr. 3 and 4) 5. Amount of Securities Beneficially Owned Owned Following Reported Transaction(S) (Instr. 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Securities Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and Securities Beneficially Owned (Instr. 4) Transaction Date (Month/Day/Year) 3. Transaction Date (I) (Instr. 3 and 4) 5. Number of Securities Derivative Securities Underlying Derivative Securities Month/Day/Year) Title of Derivative Securities Derivative Securities Derivative Securities Porm: Owned Code (Instr. 8) Title of Derivative Securities Derivative Securities Derivative Securities (I) (Instr. 4) Transaction Date (Month/Day/Year) Transaction Date	WEST CHESTE	IR				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									X Form filed by One Reporting Person Form filed by More than One Reporting					
Date (Month/Day/Year) Date (Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Common Stock Code V Amount (A) or (D) Price Transaction(S) (Instr. 3 and 4)	Date					Execution Date, if any			Transaction Disposed Of (D) (Instr. 3 Code (Instr. 5)						Securities Beneficially Owned Following		Form: Direct (D) or Indirect		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
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) 1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise (Month/Day/Year) 3. Transaction Date (Month/Day/Year) 4. Transaction Code (Instr. 8) 5. Number of Derivative Securities (Month/Day/Year) 6. Date Exercisable and Expiration Date (Month/Day/Year) 6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amount of Securities Underlying Derivative Security (Instr. 5) 8. Price of Derivative Security (Instr. 5) 9. Number of Derivative Security (Instr. 5) 9. Number of Derivative Securities (Month/Day/Year) 10. Ownership Securities Underlying Derivative Security (Instr. 5) 9. Number of Derivative Security (Instr. 5) 10. Ownership Securities (Month/Day/Year) 10. Ownership Securities (Month/Day/Year) 11. Title of Date (Instr. 5) 12. Title and Expiration Date (Month/Day/Year) 13. Transaction Date (Month/Day/Year) 14. Transaction Date (Month/Day/Year) 15. Number of Derivative Securities (Month/Day/Year) 16. Date Exercisable and Expiration Date (Month/Day/Year) 17. Title and Expiration Date (Month/Day/Year) 18. Price of Derivative Security (Instr. 5) 19. Number of Derivative Securities (Month/Day/Year) 19. Number of Derivative Securities (Month/Day/Year) 10. Ownership Securities (Month/Day/Year) 11. Title of Date (Month/Day/Year) 12. Title of Date (Month/Day/Year) 13. Transaction (Date (Month/Day/Year) 14. Title of Date (Month/Day/Year) 15. Number of Securities (Month/Day/Year) 16. Date (Month/Day/Year) 17. Title and Amount of Securities (Month/Day/Year) 18. Price of Derivative Securities (Month/Day/Year) 19. Number of Owner (Month/Day/Year) 19. Number of Owner (Mont											v	Amount		(A) or (D)	Price		Transaction(s)				(11341.4)
(e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative Security (Instr. 3) (Instr. 4) (Instr. 4) (Instr. 5) (Instr. 4) (Instr. 4)	Common Stock 07/29/									F		2,248 ⁽¹⁾ D		\$12	.17	7 50,819		Ι)		
Derivative Security or Exercise (Instr. 3) Price of Derivative Security (Instr. 3) Derivative Security																					
(Instr. 3, 4 and 5) Amount or Number	Derivative Security	erivative Conversion curity or Exercise (Month/Day/Year) Execution Date, if any (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)					of Deriva Secur Acqui (A) or Dispo of (D) (Instr.	Expiration Date			Amount of Securities Underlying Derivative Security (Instr. and 4)		ount	Deriv Secu	vative (urity : tr. 5)	derivative Securities Beneficially Owned Following Reported	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

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

08/01/2011

** 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.