AtriCure, In	nc.									
Form 4 November	14 2016									
								OMB A	PPROVAL	
FORM	UNITED	STATES S					E COMMISSION	N OMB Number:	3235-0287	
Check t if no lor subject Section Form 4 Form 5 obligati may cor <i>See</i> Inst 1(b).	nger to 16. or Filed put ons ntinue.	Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940							January 31, 2005 average urs per . 0.5	
(Print or Type	Responses)									
1. Name and Address of Reporting Person <u>*</u> WEHRWEIN SVEN			2. Issuer Name and Ticker or Trading Symbol AtriCure, Inc. [ATRC]				5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First) (Middle)	3. Date of Earliest Transaction				(Check all applicable)			
4877 EAST LAKE HARRIET PARKWAY			(Month/Day/Year) 11/11/2016			X_ Director 10% Owner Officer (give title Other (specify below) below)				
(Street)			4. If Amendment, Date 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 				
MINNEAF	POLIS, MN 55419)					Person	More than One K	eporting	
(City)	(State)	(Zip)	Tab	ole I - Non-	Derivative	Securities A	Acquired, Disposed	of, or Beneficia	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution D any (Month/Day	Date, if	Code (Instr. 8)	4. Securit onAcquired Disposed (Instr. 3, 4 Amount	(A) or of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Demindary De	nort on a constation	for each also	of of	urities hare	ficially or	ad directly	orindirectly			
Kenninder: Ke	port on a separate line	- Ior each clas	55 01 Sec	unities dene	Perso inforn requir	ns who rest nation cont ed to resp ys a curre	or indirectly. spond to the colle tained in this form ond unless the fo ntly valid OMB co	n are not rm	SEC 1474 (9-02)	

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
 (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount o
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	orDerivative	Expiration Date	Underlying Securities
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)					
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Stock Option (right to buy)	\$ 19.95	11/11/2016		A		50,000		11/11/2017 <u>(1)</u>	11/11/2026	Common Stock	50,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
WEHRWEIN SVEN 4877 EAST LAKE HARRIET PARKWAY MINNEAPOLIS, MN 55419	Х					
Signatures						
/s/ M. Andrew Wade as Attorney-In-Fact for Wehrwein	Sven		11/14/2016			
** 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).
- (1) Exercisable cumulatively at a rate of 25% per annum commencing on the anniversary of the date of grant.
- (2) Not applicable

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.