AtriCure, In Form 4 April 07, 20	006				OMB A	PPROVAL		
FORN Check t	UNITED		RITIES AND EXCHANGE ashington, D.C. 20549	COMMISSION	OMB Number:	3235-0287		
if no loi subject Section Form 4 Form 5 obligati may col	nger to 16. or Filed put		nge Act of 1934, of 1935 or Section	Expires: January 31, 2005 Estimated average burden hours per response 0.5				
See Inst 1(b). (Print or Type	truction	30(h) of the I	Investment Company Act of 1	940				
	Address of Reporting	Symbol	er Name and Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer				
(Last)	(First) (of Earliest Transaction	(Check all applicable)				
ONE SOU 2150	TH STREET, SU		/Day/Year) 2006	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 			
BALTIMORE, MD 21202 Form filed by More than One Reporting Person								
(City)	(State)	(Zip) Ta	ble I - Non-Derivative Securities A	cquired, Disposed of,	or Beneficia	lly Owned		
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, if any	3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) (A) or	SecuritiesForBeneficially(D)Owned(I)	Ownership orm: Direct)) or Indirect (nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Damindar: Da	aport on a senarate lin	a for each class of se	Code V Amount (D) Price					
Kenninder: Ke	sport on a separate find	e for each class of sec	information conta required to respo	pond to the collecti ained in this form a ond unless the form atly valid OMB cont	re not	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	Transacti	orDerivative	Expiration Date	Underlying Securities
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)

number.

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(Instr. 3)	Price of Derivative Security	(Month/Day	y/Year) ((Instr. 8)	or Dispose (D)	(Instr. 3, 4,				
			·	Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Stock Option (Right to Buy)	\$ 9.37	04/06/2006		A	30,000		04/06/2007 <u>(1)</u>	04/06/2016	Common Stock	30,000

Reporting Owners

Reporting Owner Name / Address		Relationsh		
	Director	10% Owner	Officer	Other
JOHNSTON RICHARD M ONE SOUTH STREET, SUITE 2150 BALTIMORE, MD 21202	Х			
Signatures				
/s/ Thomas J. Etergino as Attorney-in-I Johnston		04/07/2006		

**Signature of Reporting Person

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 April 6, 2007 (one year from 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.

Date