

Shaffer Maureen  
Form 3  
February 16, 2007

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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

(Print or Type Responses)

|   |         |                                      |  |  |
|---|---------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person * |         | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol                                |  |
| Â Shaffer Maureen                         |         | (Month/Day/Year)                     | AtriCure, Inc. [ATRC]  |  |
| (Last)                                    | (First) | (Middle)                             | 02/08/2007   |  |
| 6033 SCHUMACHER PARK DRIVE                |         |                                      | 4. Relationship of Reporting Person(s) to Issuer                           | 5. If Amendment, Date Original Filed(Month/Day/Year)                   |
| (Street)                                  |         |                                      | (Check all applicable)   |  |
| WEST CHESTER,Â OHÂ 45069                  |         |                                      | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner       | 6. Individual or Joint/Group Filing(Check Applicable Line)             |
| (City)                                    | (State) | (Zip)                                | <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
|   |         |                                      | (give title below) (specify below)   | <input type="checkbox"/> Form filed by More than One Reporting Person  |
|   |         |                                      | Vice President, Marketing  |  |

**Table I - Non-Derivative Securities Beneficially Owned**

|                                 |   |  |   |
|---------------------------------|---|--|---|
| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

|  |  |   |  |  |   |
|--|--|---|--|--|---|
| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|  | Date Exercisable   | Expiration Date   | Title  | Amount or Number of Shares   |   |

(Instr. 5)

|                             |                           |            |              |        |          |   |   |
|-----------------------------|---------------------------|------------|--------------|--------|----------|---|---|
| Stock Option (Right to Buy) | 10/06/2005 <sup>(1)</sup> | 10/06/2014 | Common Stock | 3,947  | \$ 3.23  | D | Â |
| Stock Option (Right to Buy) | 12/07/2006 <sup>(2)</sup> | 12/07/2015 | Common Stock | 5,000  | \$ 13.18 | D | Â |
| Stock Option (Right to Buy) | 09/06/2007 <sup>(3)</sup> | 09/06/2016 | Common Stock | 11,053 | \$ 6.34  | D | Â |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                                   |       |
|---|---------------|-----------|-----------------------------------|-------|
|   | Director      | 10% Owner | Officer                           | Other |
| Shaffer Maureen<br>6033 SCHUMACHER PARK DRIVE<br>WEST CHESTER, OH 45069 | Â             | Â         | Â Vice<br>President,<br>Marketing | Â     |

## Signatures

/s/ Maureen A.  
Shaffer

02/16/2007

\_\_Signature of  
Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 5(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 October 6, 2005 (one year from the date of grant).
  - (2) The option vests and is exercisable as to 25% of the shares on December 7, 2006 (one year from the date of grant) and the remaining 75% thereafter vests and is exercisable in equal monthly installments on the same day of the month over the following three years.
  - (3) The option vests and is exercisable as to 25% of the shares on September 6, 2007 (one year from the date of grant) and the remaining 75% thereafter vests and is exercisable in equal monthly installments on the same day of the month over the following three years.

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.