

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| | | |
|---|--|--|
| <p>1. Name and Address of Reporting Person*</p> <p><u>PRESIDIO MANAGEMENT GROUP VIII L L C</u></p> <p>(Last) (First) (Middle)</p> <p>2735 SAND HILL ROAD</p> <p>(Street)</p> <p>MENLO PARK CA 94025</p> <p>(City) (State) (Zip)</p> | <p>2. Issuer Name and Ticker or Trading Symbol</p> <p><u>AtriCure, Inc. [ATRC]</u></p> <p>3. Date of Earliest Transaction (Month/Day/Year)</p> <p>06/13/2012</p> <p>4. If Amendment, Date of Original Filed (Month/Day/Year)</p> | <p>5. Relationship of Reporting Person(s) to Issuer (Check all applicable)</p> <p>Director <input checked="" type="checkbox"/> 10% Owner</p> <p>Officer (give title below) Other (specify below)</p> <p>6. Individual or Joint/Group Filing (Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person</p> <p><input type="checkbox"/> Form filed by More than One Reporting Person</p> |
|---|--|--|

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 06/13/2012 | | J ⁽¹⁾ | | 350,000 | D | (1) | 1,502,444 | I | Directly Held by USVP VIII ⁽²⁾ |
| Common Stock | 06/13/2012 | | J ⁽¹⁾ | | 2,579 | D | (1) | 11,873 | I | Directly Held by AFF VII ⁽²⁾ |

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) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|---|--|--|---|--|
| | | | | Code | V | (A) | (D) | | | | | |

1. Name and Address of Reporting Person*

PRESIDIO MANAGEMENT GROUP VIII L L C

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

US VENTURE PARTNERS VIII L P

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

USVP VIII AFFILIATES FUND L P

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

USVP ENTREPRENEUR PARTNERS VIII A L P

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

USVP ENTREPRENEUR PARTNERS VIII B L P

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

FEDERMAN IRWIN

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

FU WINSTON S

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

KRAUSZ STEVEN M

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

LIDDLE DAVID E

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

1. Name and Address of Reporting Person*

ROOT JONATHAN D

(Last) (First) (Middle)

2735 SAND HILL ROAD

(Street)

MENLO PARK CA 94025

(City) (State) (Zip)

Explanation of Responses:

1. Prorata distribution in kind from the partnership without consideration to its partners.

2. Presidio Management Group VIII, LLC ("PMG VIII") is the general partner of US Venture Partners VIII, L.P. ("USVP VIII"), USVP Entrepreneur Partners VIII-A, L.P. ("EP VIII-A"), USVP Entrepreneur Partners VIII-B, L.P. ("EP VIII-B"), and USVP VIII Affiliates Fund, L.P. ("AFF VIII"), and Irwin Federman, Winston S. Fu, Steven M. Krausz, David E. Liddle, Jonathan D. Root, Christopher Rust, Casey M. Tansey and Philip M. Young, the managing members of PMG VIII, may be deemed to share voting and dispositive power over the shares held by USVP VIII, EP VIII-A, EP VIII-B and AFF VIII. Such persons and entities disclaim beneficial ownership of shares held by USVP VIII, EP VIII-A, EP VIII-B and AFF VIII except to the extent of any pecuniary interest therein.

Remarks:

Remark: This report is one (1) of two (2) reports each on a separate Form 4; however, these forms are related to the same transaction being filed by the reporting persons.

Michael P. Maher - Attorney in
Fact for each reporting person 06/13/2012

** 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.