

AtriCure, Inc.  
Form SC 13G  
February 14, 2006

OMB APPROVAL  
OMB Number: 3235-0145  
Expires: February 28, 2006  
Estimated average burden  
hours per response...11

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

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. )\***

AtriCure, Inc.  
(Name of Issuer)  
Common Stock, par value \$0.001 per share  
(Title of Class of Securities)  
04963C209  
(CUSIP Number)  
December 31, 2005  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

**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 control number.**



CUSIP No. 04963C209

Page 2 of 14

NAMES OF REPORTING PERSONS:

1

Charter Advisors Fund IV, L.P.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

77-05501938

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

Delaware

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

8,713

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

8,713

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

8,713

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

0.07%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

CUSIP No. 04963C209

Page 3 of 14

NAMES OF REPORTING PERSONS:

1

Charter Entrepreneurs Fund IV, L.P.

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

77-055-1941

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

Delaware

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

27,399

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

27,399

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

27,399

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

0.23%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

PN

CUSIP No. 04963C209

Page 4 of 14

NAMES OF REPORTING PERSONS:

1

CLS I-IV, LLC

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

77-060-6802

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

Delaware

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

702,305

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

702,305

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9



702,305

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

5.82%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

CO

CUSIP No. 04963C209

Page 5 of 14

NAMES OF REPORTING PERSONS:

1

Charter Ventures IV Partners, LLC

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

77-054-7508

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

Delaware

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

36,112

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

36,112

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

36,112

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

0.30%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

CO

CUSIP No. 04963C209

Page 6 of 14

NAMES OF REPORTING PERSONS:

1

A. Barr Dolan

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

United States

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

738,417

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

738,417

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

738,417

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

6.12%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

IN

CUSIP No. 04963C209

Page 7 of 14

NAMES OF REPORTING PERSONS:

1

Dr. Donald C. Harrison

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

United States

SOLE VOTING POWER:

5

NUMBER OF 223,417

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

702,305

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

223,417

SHARED DISPOSITIVE POWER:

WITH: 8

702,305

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

925,722

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

7.67%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

IN

CUSIP No. 04963C209

Page 8 of 14

NAMES OF REPORTING PERSONS:

1

Fred M. Schwarzer

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

United States

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

702,305

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

702,305

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9



702,305

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

5.82%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

IN

CUSIP No. 04963C209

Page 9 of 14

NAMES OF REPORTING PERSONS:

1

Dr. Nelson Teng

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):

2

(a)

(b)

SEC USE ONLY:

3

CITIZENSHIP OR PLACE OF ORGANIZATION:

4

United States

SOLE VOTING POWER:

5

NUMBER OF 0

SHARED VOTING POWER:

SHARES BENEFICIALLY OWNED BY 6

702,305

SOLE DISPOSITIVE POWER:

EACH REPORTING PERSON 7

0

SHARED DISPOSITIVE POWER:

WITH: 8

702,305

AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

9

702,305

**10** CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):

o

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):

5.82%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):

IN

**Item 1. (a) Name of Issuer:**

AtriCure, Inc.

**(b) Address of Issuer's Principal Executive Offices:**

6033 Schumacher Park Drive  
West Chester, OH 45069

**Item 2. (a) Name of Person Filing:**

- (1) Charter Advisors Fund IV, L.P. ( CAF )
- (2) Charter Entrepreneurs Fund IV, L.P. ( CEF )
- (3) CLS I-IV, LLC ( CLS )
- (4) Charter Ventures IV Partners, LLC ( CV IV )
- (5) A. Barr Dolan
- (6) Dr. Donald C. Harrison
- (7) Fred M. Schwarzer
- (8) Dr. Nelson Teng

CV IV is the General Partner of CAF and CEF and Mr. Dolan is the individual Manager of CV IV. Mr. Dolan, Dr. Harrison, Mr. Schwarzer and Dr. Teng are individual Managers of CLS. Dr. Harrison is a member of the Board of Directors of the Issuer. The entities and persons named in this Item 2(a) are individually referred to herein as a Reporting Person and collectively as the Reporting Persons.

**(b) Address of Principal Business Office, or, if none, Residence:**

Charter Venture Capital  
525 University Avenue  
Palo Alto, California 94301

**(c) Citizenship:**

**Entities:**

CAF Delaware  
CEF Delaware  
CLS Delaware  
CV IV Delaware

**Individuals:**

Mr. Dolan United States  
Dr. Harrison United States  
Mr. Schwarzer United States  
Dr. Teng United States

(d) **Title of Class of Securities:**

Common Stock

(e) **CUSIP Number:**

04963C209

**Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

N/A

- (a) .. Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b) .. Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) .. Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) .. Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) .. An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) .. An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) .. A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) .. A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) .. A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) .. Group, in accordance with §240.13d-1(b)(1)(ii)J).

**Item 4. Ownership**

See rows 5 through 11 of the cover page for each Reporting Person. The ownership percentages are based on 12,066,005 shares of Common Stock of the Issuer reported to be outstanding as of October 31, 2005 in a Form 10-Q filed with the SEC on November 15, 2005.

As of December 31, 2005,

(i) CAF is the record holder of 8,052 shares of Common Stock and warrants exercisable for 661 shares of Common Stock;

(ii) CEF is the record holder of 25,534 shares of Common Stock and warrants exercisable for 1,865 shares of Common Stock;

(iii) CLS is the record holder of 667,472 shares of Common Stock and warrants exercisable for 34,833 shares of Common Stock; and

(iv) Dr. Harrison is the record holder of 193,291 shares of Common Stock, options exercisable for 21,316 shares of Common Stock and warrants exercisable for 8,810 shares of Common Stock.

CV IV is the General Partner of CAF and CEF and Mr. Dolan is the individual Manager of CV IV. By virtue of such relationships, CV IV and Mr. Dolan may each be deemed to be the beneficial owners of the shares of Common Stock held by CAF and CEF. Mr. Dolan, Dr. Harrison, Mr. Schwarzer and Dr. Teng are individual Managers of CLS. By virtue of this relationship, Mr. Dolan, Dr. Harrison, Mr. Schwarzer and Dr. Teng may each be deemed to be the beneficial owners of the shares of Common Stock held by CLS.

Each Reporting Person expressly disclaims beneficial ownership except to the extent of his or its pecuniary interest therein, if any of any shares of Common Stock, except in the case of (i) CAF for the 8,713 shares and warrants which it holds of record, (ii) CEF for the 27,399 shares and warrants it holds of record, (iii) CLS for the 702,305 shares and warrants it holds of record and (iv) Dr. Harrison for the 223,417 shares, options and warrants he holds of record.

**Item 5. Ownership of Five Percent or Less of a Class:**

Not Applicable.

**Item 6. Ownership of More than Five Percent on Behalf of Another Person:**

Not Applicable.

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company:**

Not Applicable.

**Item 8. Identification and Classification of Members of the Group:**

Not Applicable.

**Item 9. Notice of Dissolution of Group:**

Not Applicable.

**Item 10. Certification:**

Not Applicable.



SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 13, 2006

**Charter Advisors Fund IV, L.P.**

By: Charter Ventures IV Partners, LLC, its General Partner

By: /s/ A. Barr Dolan

Name: A. Barr Dolan  
Title: Managing Member

**Charter Entrepreneurs Fund IV, L.P.**

By: Charter Ventures IV Partners, LLC, its General Partner

By: /s/ A. Barr Dolan

Name: A. Barr Dolan  
Title: Managing Member

**CLS I-IV, LLC**

By: /s/ Fred M. Schwarzer

Name: Fred M. Schwarzer  
Title: Managing Member

**Charter Ventures IV Partners, LLC**

By: /s/ A. Barr Dolan

Name: A. Barr Dolan  
Title: Managing Member

/s/ A. Barr Dolan

A. Barr Dolan, an individual  
/s/ Dr. Donald C. Harrison

Dr. Donald C. Harrison, an individual  
/s/ Fred M. Schwarzer

Fred M. Schwarzer, an individual  
/s/ Dr. Nelson Teng

Dr. Nelson Teng, an individual

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)