### **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## **SCHEDULE 13G**

#### Under the Securities Exchange Act of 1934 (Amendment No. 1)\*

# AtriCure, Inc.

Common Stock, par value \$0.001 per share

(Title of Class of Securities)

04963C209

(CUSIP Number)

January 1, 2006

(Date of Event Which Requires Filing of this Statement)

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

o Rule 13d-1(b)

☑ Rule 13d-1(c)

o 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.

<b>1</b> NAMES OF REPORTING PERSONS: Charter Advisors Fund IV, L.P.I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):							
	Charter Advisors Fund IV, L.P.						
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):						
<b>3</b>	SEC USE ONLY:						
3							
CITIZENSHIP OR PLACE OF ORGANIZATION:							
4							
• Delaware							
SOLE VOTING POWER:							
5							
NUMBER OF 0							
SHARES SHARED VOTING POWER:							
BENEFICIALLY 6							
OWNED BY 8,713							
EACH SOLE DISPOSITIVE POWER:							
REPORTING 7   PERSON 0							
WITH: SHARED DISPOSITIVE POWER:							
8.713							
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:							
9							
8,713							
CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):						
10							
0							
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):						
	0.07%						
12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):							
PN							
11N							

1	NAMES OF REPORTING PERSONS: Charter Entrepreneurs Fund IV, L.P. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):					
	(a) o (b) ☑					
3	SEC US	SE ONI	X:			
4	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:			
4	Delawai	re				
NUMI	BER OF	5	SOLE VOTING POWER: 0			
BENEF	SHARES BENEFICIALLY OWNED BY		SHARED VOTING POWER: 27,399			
REPO	EACH REPORTING PERSON		SOLE DISPOSITIVE POWER:			
W	TH:	8	SHARED DISPOSITIVE POWER: 27,399			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON: 27,399					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
11	o     PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):     0.23%					
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):					
	0.23% TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):					

1	NAMES OF REPORTING PERSONS: CLS I-IV, LLC					
	I.R.S. II	DENTIF	ICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):			
	CHECK	THE A	APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):			
2	(a) o (b) ☑					
3	SEC US	SE ONL	Y:			
4	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:			
4	Delawaı	aware				
		5	SOLE VOTING POWER:			
	BER OF		0			
SHARES BENEFICIALLY		6	SHARED VOTING POWER:			
OWN	ED BY		0			
	ACH RTING	7	SOLE DISPOSITIVE POWER:			
	SON		0			
WI	TH:	8	SHARED DISPOSITIVE POWER:			
		0	0			
9	AGGRE	EGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:			
0	0					
10	CHECK	IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):			
10	0					
11	PERCE	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):				
11	0%					
12	TYPE C	OF REP	ORTING PERSON (SEE INSTRUCTIONS):			
12	CO					

	NAMES OF REPORTING PERSONS: Charter Ventures IV Partners, LLC					
1						
	I.R.S. II	DENTII	FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):			
	CHECK	THE A	APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):			
2	(2) 0					
	(a) o (b) ☑					
	SEC US	E ONI	Y:			
3						
	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:			
4	Dili					
	Delawa	e				
		5	SOLE VOTING POWER:			
NUMI	BER OF	J	0			
SHA	ARES		SHARED VOTING POWER:			
BENEF	ICIALLY	6				
OWN	ED BY		738,417			
	СН	-	SOLE DISPOSITIVE POWER:			
	RTING	7				
	RSON		0 CHARED DISDOSITIVE DOMED.			
W	TH:	8	SHARED DISPOSITIVE POWER:			
		U	738,417			
	AGGRE	GATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:			
9						
	738,417					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
10	0					
		0 DEDCENT OF CLASS DEDDECENTED DV AMOUNT IN DOM (0).				
11	PERCE	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):				
	6.09%					
	TYPE C	F REP	ORTING PERSON (SEE INSTRUCTIONS):			
12						
	CO					

			EPORTING PERSONS:			
1	Charter Ventures IV, L.P.					
	I.R.S. II	DENTII	FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):			
L	CHECK	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):				
2	(a) o					
	(b) 🗹					
3	SEC US	E ONL	Y:			
4	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:			
4	Delawar	e				
		F	SOLE VOTING POWER:			
NUM	BER OF	5	0			
	ARES	0	SHARED VOTING POWER:			
	ICIALLY ED BY	6	702,305			
	ACH		SOLE DISPOSITIVE POWER:			
	RTING RSON	7	0			
	ITH:		SHARED DISPOSITIVE POWER:			
		8				
	ACCRE	CATE	702,305 AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:			
9	noon	OTTL	ANOUNT BENEFICIALET OWNED DT EACH NEI ONTING TEROON.			
	702,305					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
	0	0				
11	PERCEI	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):				
	5.80%	5.80%				
17	TYPE C	F REP	ORTING PERSON (SEE INSTRUCTIONS):			
12	PN	PN				

1	NAMES OF REPORTING PERSONS: 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						
2	(a) o (b) ☑					
	SEC US	E ONL	Y:			
3						
	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:			
4	United S	States				
	United a	states	SOLE VOTING POWER:			
	BER OF		0			
	ARES ICIALLY	6	SHARED VOTING POWER:			
	ED BY	U	738,417			
	СН	-	SOLE DISPOSITIVE POWER:			
	RTING SON	7	0			
	TH:		SHARED DISPOSITIVE POWER:			
		8				
			738,417			
9	AGGRE	EGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:			
	738,417					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
10	0					
		PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):				
11	6.000/					
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):					
	IN					

1	NAMES Dr. Don		EPORTING PERSONS: Harrison				
L	I.R.S. II	DENTII	FICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):				
	CHECK	THE A	APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):				
2	(a) o						
	(b) 🗹						
3	SEC US	SE ONL	Y:				
	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:				
4	United S	States					
	1		SOLE VOTING POWER:				
NUM	BER OF	5	213,417				
	ARES		SHARED VOTING POWER:				
	ICIALLY	6					
	ED BY ACH		0 SOLE DISPOSITIVE POWER:				
	RTING	7	SOLE DISPOSITIVE POWER.				
	RSON		213,417				
W	TH:	8	SHARED DISPOSITIVE POWER:				
		U	0				
•	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:						
9	213,417						
		CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
10							
		0 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):					
11							
	1.7%		ODTING DEDGON (SEE INSTRUCTIONS).				
12	IYPEC	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS):					
	IN						

1	NAMES OF REPORTING PERSONS: Fred M. Schwarzer I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS): (a) o (b) ☑					
3	SEC US	E ONL	Y:			
4	CITIZEI United S		OR PLACE OF ORGANIZATION:			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		5 6 7 8	SOLE VOTING POWER:     0     SHARED VOTING POWER:     0     SOLE DISPOSITIVE POWER:     0     SHARED DISPOSITIVE POWER:     0			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9): 0%					
12	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS): IN					

1	NAMES OF REPORTING PERSONS: Dr. Nelson Teng I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY):						
	CHECK	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS):					
2	(a) o (b) ☑						
3	SEC USE ONLY:						
4	CITIZE	NSHIP	OR PLACE OF ORGANIZATION:				
4	United S	States					
NUME	BER OF	5	SOLE VOTING POWER: 0				
BENEF	SHARES BENEFICIALLY OWNED BY		SHARED VOTING POWER: 0				
REPO	EACH REPORTING PERSON		SOLE DISPOSITIVE POWER:				
WI	TH:	8	SHARED DISPOSITIVE POWER:				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:						
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS):						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):						
12							
	IN						

#### Item 1.

- (a) **Name of Issuer:** AtriCure, Inc.
- (b) Address of Issuer's Principal Executive Offices: 1240 Elko Drive, Sunnyvale, CA 94089

#### 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, LLC")
- (5) Charter Ventures IV, L.P ("CV IV, L.P.")
- (6) A. Barr Dolan
- (7) Dr. Donald C. Harrison
- (8) Fred M. Schwarzer
- (9) Dr. Nelson Teng

CV IV, LLC is the General Partner of CAF, CEF and CV IV, L.P. and Mr. Dolan is the individual Manager of CV IV, LLC. 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, LLC — Delaware CV IV, L.P. — 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) o Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).
- (b) o Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) o Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) o Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) o An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) o An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) o A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) o A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) o 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) o 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 12,117,534 shares of Common Stock of the Issuer reported to be outstanding as of May 1, 2006 in a Form 10-Q filed with the SEC on May 12, 2006.

On January 1, 2006, CLS disposed of all the shares of Common Stock of the issuer CLS held of record. Such shares were transferred to CV IV, L.P. pursuant to a Dissolution Agreement between CLS and the Members and Managers of CLS, dated January 1, 2006. As of January 1, 2006 and the date of this Amendment to Schedule 13G:

(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) CV IV, L.P. 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 within 60 days of the date of this Amendment to Schedule 13G for 11,316 shares of Common Stock and warrants exercisable within 60 days of the date of this Amendment to Schedule 13G for 8,810 shares of Common Stock. Dr. Harrison is also the holder of a stock option for 10,000 shares which is not exercisable within the next 60 days.

CV IV, LLC is the General Partner of CAF, CEF and CV IV, L.P. and Mr. Dolan is the individual Manager of CV IV, LLC. By virtue of such relationships, CV IV, LLC and Mr. Dolan may each be deemed to be the beneficial owners of the shares of Common Stock held by CAF, CEF and CV IV, L.P.

Mr. Dolan, Dr. Harrison, Mr. Schwarzer and Dr. Teng are individual Managers of CLS. The shares formerly held by CLS have been distributed, as explained above and consequently, such persons are no longer deemed to

be beneficial owners of the shares formerly held by CLS by virtue of their relationship with CLS. CLS, Dr. Harrison, Mr. Schwarzer and Dr. Teng will no longer be Reporting Persons as a result of such distribution.

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) CV IV, L.P. for the 702,305 shares and warrants it holds of record and (iv) Dr. Harrison for the 213,417 shares he holds of record and options and warrants exercisable within the next 60 days.

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: July 16, 2006

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

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

By: <u>/s/ A. Barr Dolan</u> Name: A. Barr Dolan Title: Managing Member

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

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

By: <u>/s/ A. Barr Dolan</u> 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

Charter Ventures IV, LLP

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

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)

#### EXHIBIT I JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned agree that only one statement containing the information required by the Schedule 13G (Amendment No. 1) need by filed by each of the undersigned with respect to the ownership by each of the undersigned of shares of stock of AtriCure, Inc. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original.

Date: July 16, 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: <u>/s/ A. Barr Dolan</u> 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

Charter Ventures IV, LLP

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

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