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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 2)\*

AtriCure Inc (Name of Issuer)

# Common Stock (Title of Class of Securities)

04963C209 (CUSIP Number)

December 31, 2009 (Date of Event Which Requires Filing of this Statement)

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

[X] 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).

CUSIP: 04963C209

Page 1 of 4

- 1 NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Capital Research Global Investors \*\*
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a)
- 3 SEC USE ONLY (b)
- 4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

	5 SOLE VOTING POWER		
	NONE		
	6 SHARED VOTING POWER		
NUMBER OF SHARES BENEFICIALL	NONE		
Y OWNED BY	7 SOLE DISPOSITIVE POWER		
REPORTING PERSON	NONE		
WITH:	8 SHARED DISPOSITIVE POWER		
	NONE		
9 AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
NONE	Beneficial ownership disclaimed pursuant to Rule 13d-4		
	OX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES STRUCTIONS)		
11 PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
0.0%			
12 TYPE OF IA	REPORTING PERSON (SEE INSTRUCTIONS)		
** A division of Capital Research and Management Company (CRMC)			
CUSIP: 04963	C209 Page 2 of 4		
CUSIP: 04963	C209 Page 2 of 4 SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549		
CUSIP: 04963	SECURITIES AND EXCHANGE COMMISSION		
CUSIP: 04963 Amendment No	SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 Schedule 13G Under the Securities Exchange Act of 1934		
Amendment No Item 1(a)	SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 Schedule 13G Under the Securities Exchange Act of 1934		
Amendment No Item 1(a) AtriC Item 1(b) 6033	SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549 Schedule 13G Under the Securities Exchange Act of 1934 . 2 Name of Issuer:		
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(e) [X] An investment adviser in accordance with

section 240.13d-1(b)(1)(ii)(E).

### Item 4 Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:
- (b) Percent of class:
- (c) Number of shares as to which the person has:
- (i) Sole power to vote or to direct the vote:
- (ii) Shared power to vote or to direct the vote:
- (iii) Sole power to dispose or to direct the disposition of:
- (iv) Shared power to dispose or to direct the disposition of:

See page 2

N/A

Item 5 Ownership of Five Percent or Less of a Class. If this
statement is being filed to report the fact that as of the date
hereof the reporting person has ceased to be the beneficial
owner of more than five percent of the class of securities,
check the following: [X]

#### CUSIP: 04963C209

Page 3 of 4

- Item 6 Ownership of More than Five Percent on Behalf of Another Person: N/A
- Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person: N/A
- Item 8  $$\rm Identification$  and Classification of Members of the Group:  $$\rm N/A$$
- Item 9 Notice of Dissolution of Group: N/A
- Item 10 Certification

By signing below, I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

### 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 8, 2010

Signature:	Timothy D.	Armour***
Name/Title:	Timothy D.	Armour - Senior Vice President
	Capital Re	search Global Investors

\*\*\*By /s/ Herbert Y. Poon Herbert Y. Poon Attorney-in-fact

Signed pursuant to a Power of Attorney dated December 21, 2007 included as an Exhibit to Schedule 13G filed with the Securities and Exchange Commission by Capital Research Global Investors on January 10, 2008 with respect to Lowes Companies, Incorporated. CUSIP: 04963C209

Page 4 of 4