

AtriCure, Inc.  
Form SC 13G/A  
February 14, 2018  
UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
SCHEDULE 13G  
Under the Securities Exchange Act of 1934  
(Amendment No. 1)\*

AtriCure, Inc.  
(Name of Issuer)  
Common Stock, \$.001 par value  
(Title of Class of Securities)  
04963C209  
(CUSIP Number)  
December 31, 2017  
(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 Instructions).

CUSIP No.: 04963C209

1 NAME OF REPORTING PERSON  
Consonance Capital Management LP  
I.R.S. IDENTIFICATION NO. OF ABOVE  
PERSON (ENTITIES ONLY)

2 CHECK THE APPROPRIATE BOX IF A  
MEMBER OF A GROUP  
(a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF  
ORGANIZATION  
Delaware, USA

NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY EACH	0	
REPORTING	7	SOLE DISPOSITIVE POWER
PERSON WITH		
	8	SHARED DISPOSITIVE POWER
	0	

9 AGGREGATE AMOUNT BENEFICIALLY  
OWNED BY EACH REPORTING PERSON  
0

10 CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY  
AMOUNT IN ROW (9)  
0

12 TYPE OF REPORTING PERSON  
IA, PN

CUSIP No.: 04963C209

1 NAME OF REPORTING PERSON  
Consonance Capital Opportunity Fund  
Management LP  
I.R.S. IDENTIFICATION NO. OF ABOVE  
PERSON (ENTITIES ONLY)

2 CHECK THE APPROPRIATE BOX IF A  
MEMBER OF A GROUP  
(a)    
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF  
ORGANIZATION  
Delaware, USA

5 NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

6 SOLE VOTING POWER

7 SHARED VOTING POWER  
0

8 SOLE DISPOSITIVE POWER

9 SHARED DISPOSITIVE POWER  
0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
0

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  
0

12 TYPE OF REPORTING PERSON  
IA, PN

CUSIP No.: 04963C209

1 NAME OF REPORTING PERSON  
Mitchell Blutt  
I.R.S. IDENTIFICATION NO. OF ABOVE  
PERSON (ENTITIES ONLY)

2 CHECK THE APPROPRIATE BOX IF A  
MEMBER OF A GROUP  
(a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF  
ORGANIZATION  
USA

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5 SOLE VOTING POWER

6 SHARED VOTING POWER  
0

7 SOLE DISPOSITIVE POWER

8 SHARED DISPOSITIVE POWER  
0

9 AGGREGATE AMOUNT BENEFICIALLY  
OWNED BY EACH REPORTING PERSON  
0

10 CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY  
AMOUNT IN ROW (9)  
0

12 TYPE OF REPORTING PERSON  
HC, IN

CUSIP No.: 04963C209

1 NAME OF REPORTING PERSON  
Consonance Capman GP LLC  
I.R.S. IDENTIFICATION NO. OF ABOVE  
PERSON (ENTITIES ONLY)

2 CHECK THE APPROPRIATE BOX IF A  
MEMBER OF A GROUP  
(a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF  
ORGANIZATION  
Delaware, USA

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5 SOLE VOTING POWER

6 SHARED VOTING POWER  
0

7 SOLE DISPOSITIVE POWER

8 SHARED DISPOSITIVE POWER  
0

9 AGGREGATE AMOUNT BENEFICIALLY  
OWNED BY EACH REPORTING PERSON  
0

10 CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY  
AMOUNT IN ROW (9)  
0

12 TYPE OF REPORTING PERSON  
HC, OO

CUSIP No.: 04963C209

**ITEM NAME OF ISSUER:**

**1(a).** AtriCure, Inc.

**ITEM ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:**

**1(b).** 7555 INNOVATION WAY  
MASON OH 45040

**ITEM NAME OF PERSON FILING:**

**2(a).** Consonance Capital Management LP  
Consonance Capital Opportunity Fund Management LP  
Mitchell Blutt  
Consonance Capman GP LLC

**ITEM ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:**

**2(b).** 1370 Avenue of the Americas  
Floor 33  
New York, NY 10019

**ITEM CITIZENSHIP:**

**2(c).** Delaware, USA  
Delaware, USA  
USA  
Delaware, USA

**ITEM TITLE OF CLASS OF SECURITIES:**

**2(d).** Common Stock, \$.001 par value

**ITEM CUSIP NUMBER:**

**2(e).** 04963C209

**ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO SECTION 240.13d-1(b), or 13d-2(b) or (c) CHECK WHETHER THE PERSON FILING IS A:**

(a) Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78c);

(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) A non-U.S. institution in accordance with 240.13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with 240.13d1(b)(1)(ii)(J), please specify the type of institution:

**ITEM 4. OWNERSHIP**

**(a) Amount beneficially owned:**

Consonance Capital Management LP 0  
Consonance Capital Opportunity Fund Management LP 0  
Mitchell Blutt 0  
Consonance Capman GPLLC 0

**(b) Percent of class:**

Consonance Capital Management LP 0%  
Consonance Capital Opportunity Fund Management LP 0%  
Mitchell Blutt 0%  
Consonance Capman GPLLC 0%

**(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:

Consonance Capital Management LP 0  
Consonance Capital Opportunity Fund Management LP 0  
Mitchell Blutt 0  
Consonance Capman GPLLC 0

(iii) sole power to dispose or direct the disposition of:

(iv) shared power to dispose or to direct the disposition of:

Consonance Capital Management LP 0  
Consonance Capital Opportunity Fund Management LP 0  
Mitchell Blutt 0  
Consonance Capman GPLLC 0

**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].

**ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:**

The ownership information in Item 4 is incorporated herein by reference.

**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 CERTIFICATION:**

**10.** 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.



CUSIP No.: 04963C209

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.

February 14 2018 Consonance Capital Management LP

By:

Consonance Capman GP LLC /s/ Mitchell Blutt

Name:

Mitchell Blutt

Title:

Manager & Member

February 14 2018 Consonance Capital Opportunity Fund Management LP

By:

Consonance Capman GP LLC /s/ Mitchell Blutt

Name:

Mitchell Blutt

Title:

Manager & Member

February 14 2018 Mitchell Blutt

By:

Consonance Capman GP LLC /s/ Mitchell Blutt

Name:

Mitchell Blutt

Title:

Manager & Member

February 14 2018 Consonance Capman GP LLC

By:

/s/ Mitchell Blutt

Name:

Mitchell Blutt

Title:

Manager & Member

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

CUSIP No.: 04963C209

Item 4. Ownership:

This amendment is submitted to report that as of December 31, 2017, none of Consonance Capital Master Account LP (Consonance Master), Consonance Capital Management LP (the investment adviser of Consonance Master, the Adviser), a managed account managed by Consonance Capital Opportunity Fund Management LP (Consonance Opportunity), Consonance Capman GP LLC (Capman), the general partner of the Adviser and Consonance Opportunity, and Mitchell Blutt, the Manager & Member of Capman and Chief Executive Officer of the Adviser, held any shares of the Issuers Common Stock.

EXHIBIT 99.1

JOINT FILING AGREEMENT

In accordance with Rule 13d1(k)(1) under the Securities Exchange Act of 1934, as amended, the persons named below agree to the joint filing on behalf of each of them of a Statement on Schedule 13G dated February 14, 2018 (including amendments thereto) with respect to the Common Stock, par value \$0.001 per share, of ATRICURE INC. This Joint Filing Agreement shall be filed as an Exhibit to such Statement. The undersigned acknowledge that each shall be responsible for the timely filing of any amendments to such joint filing and for the completeness and accuracy of the information concerning him or it contained herein and therein, but shall not be responsible for the completeness and accuracy of the information concerning the others.

CONSONANCE CAPITAL MANAGEMENT LP

By: Consonance Capman GP LLC

By: /s/ Mitchell Blutt

Name: Mitchell Blutt

Title: Manager & Member

CONSONANCE CAPITAL OPPORTUNITY FUND MANAGEMENT LP

By: Consonance Capman GP LLC

By: /s/ Mitchell Blutt

Name: Mitchell Blutt

Title: Manager & Member

CONSONANCE CAPMAN GP LLC

By: /s/ Mitchell Blutt

Name: Mitchell Blutt

Title: Manager & Member

/s/ Mitchell Blutt

MITCHELL BLUTT