MARRONE BIO INNOVATIONS INC Form SC 13D/A February 12, 2019

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 20549

SCHEDULE 13D/A

(Amendment No. 1)

(Rule 13d-101)

information to be included in statements filed pursuant to rules 13d-1(a) and amendments thereto filed pursuant to rule $13d-2(a)^1$

Marrone Bio Innovations, Inc. (Name of Issuer)

Common Stock (Title of Class of Securities)

57165B106 (CUSIP Number)

Steve Napoli c/o Ardsley Advisory Partners LP

262 Harbor Drive, 4th Floor

Stamford, Connecticut 06902 (Name, Address and Telephone Number of Person Authorized to Receive Notice and Communications)

February 12, 2018 (Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box. x

Note: Schedules filed in paper format shall include a signed original and five copies of the Schedule, including all exhibits. *See* Rule 13d-7(b) for other parties to whom copies are to be sent.

¹ 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 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*).

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names of reporting person

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Advisory Partners LP

2. check the appropriat(a) x box if (b) o a group* sec use only

3.

sources of funds

4.

	AF	
	check	
	box if	
	disclosure	
	of legal	
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6.

number of 7.	sole voti	ng
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owned by o.	power	15,656,580
9.	_	

each reporting		sole dispositive power H
person wit	h 10.	shared dispositive power 15,656,580
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12.	check box if the aggregate amount in row (11) excludes certain shares *	e e 0
13.	amount i	of class represented by n row 11 13.57% eporting person*
14.	PN, IA	

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names of reporting person

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Advisory Partners GP LLC

2. check the appropriat(a) x box if (b) o a group* sec use only

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sources of funds

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beneficially 8.	shared v	oting
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13.	amount i	of class represented by n row 11 13.57% eporting person*
14.	PN	

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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Philip J. Hempleman

2. check the appropriat(a) x box if (b) o a group* sec use only

3.

sources of funds

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6.

United States of America

number of 7.	sole voting
shares /.	power H
beneficially 8. owned by	shared voting
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person with 10.	

11. 12.	shared dispositive power 15,656,580 aggregate amount beneficially owned by each reporting person 15,656,580 check box if the aggregate amount in row (11) 0 (11) excludes certain shares
13.	percent of class represented by amount in row 11 13.57% type of reporting person*
14.	IN

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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Partners I GP LLC

2. check the appropriat(a) x box if (b) o a group* sec use only

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sources of funds

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13.	amount i	n row 11	13.57%	
	type of re	eporting p	erson*	
14.				
	PN			

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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Partners Fund II, L.P.

	check
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2.	appropriate box if
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13.	-	unt in row	epresented
14.		reporting	person*

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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Partners Advanced Healthcare Fund, L.P.

2. check the appropriate box if a group* sec use only

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sources of funds

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13.	by amou	of class represented ant in row 11 1.07% reporting person*
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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Partners Renewable Energy Fund, L.P.

2. check the appropriat(a) x box if (b) o a group* sec use only

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sources of funds

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each reporting	sole dispositive power H
person wit	th 10. shared dispositive power 13,821,580
11.	aggregate amount beneficially owned by each reporting person 13,821,580
12.	check box if the aggregate amount in row (11) excludes certain shares *
13.	percent of class represented by amount in row 11 11.91% type of reporting person*
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names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Ardsley Duckdive Fund, L.P.

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	a group*
	sec use only

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sources of funds

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beneficially owned by each reporting person with	9.	sole disp power shared d	50,000 positive
11.	aggregate amount beneficially owned by each reporting person 50,000 check		
12.	box if the aggrega amount in row (11) exclude certain shares *	o	
13.	represe row 11	0.05%	mount in g person*
14.	PN	reporting	5 Person

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ITEM 1. Security and Issuer

(a) The name of the issuer is Marrone Bio Innovations, Inc. (MBII) (the "Issuer").

(b) The address of the Issuer's principal executive offices is 1540 Drew Avenue, Davis, California 95618. This Schedule 13D/A (the "Schedule") relates to the common stock ("Common Stock"), of the Issuer and amends and restates the Schedule 13D dated February 5, 2018.

ITEM 2. Identity and Background

(a) This Schedule is being filed with respect to the Common Stock of the Issuer which are beneficially owned by the following reporting persons:

(i) Ardsley Advisory Partners LP (the "Advisor")

(ii) Ardsley Advisory Partners GP LLC (the "Advisor General Partner")

(iii) Ardsley Partners I GP LLC (the "General Partner")

(iv)Phillip J. Hempleman

(v) Ardsley Partners Fund II, L.P. (the "Fund II"),

- (vi) Ardsley Partners Advanced Healthcare Fund, L.P. (the "Healthcare
- (^{v1)} Fund"),
- (vii)Ardsley Partners Renewable Energy Fund L.P. (the "Renewable Energy Fund") and

Ardsley Duckdive Fund L.P. (the "Duckdive Fund and together with the Advisor, the Advisor General Partner, viii) General Partner, Phillip L Hempleman, the Fund II, the Healthcare Fund, the Penewahle Energy Fund and the

(viii)General Partner, Phillip J. Hempleman, the Fund II, the Healthcare Fund, the Renewable Energy Fund and the Duckdive Fund, the "Reporting Persons").

Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

(b) The address of the principal office of each of the Reporting Persons is 262 Harbor Drive, Stamford, Connecticut 06902.

The principal business of the Advisor is serving as investment manager to certain private investment funds, including Fund II, Healthcare Fund, Renewable Energy Fund and Duckdive Fund, and to make investment decisions on behalf of these private investment funds. The Principal business of the Advisor General Partner is serving as the general partner of the Advisor. The principal business of the General Partner is serving as the general partner of certain limited partnerships, including Fund II, Healthcare Fund, Renewable Energy Fund, and the Duckdive Fund. Mr. Philip Hempleman serves as managing member of the Advisor and the General Partner. The principal business of Fund II, Healthcare Fund, Renewable Energy Fund is serving as private investment limited partnerships.

(c) No Reporting Person, has, during the last five years, been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).

No Reporting Person, has, during the last five years, been party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(e)Mr. Philip Hempleman is a citizen of the United States of America.

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ITEM 3. Source and Amount of Funds or Other Consideration

On February 5, 2018, the Renewable Energy Fund purchased from the Issuer an aggregate of 6,666,667 shares of Common Stock of the Issuer as well as 5,333,333 warrants exercisable for shares of Common Stock of the Issuer at an exercise price of \$1.00 per share, for total consideration of \$5,000,000 derived from the Renewable Energy Fund's working capital.

The Renewable Energy Fund has sold in the past sixty days in open market transactions an aggregate of 25,000 shares of Common Stock of the Issuer for total consideration of \$49,913.

ITEM 4. Purpose of Transaction

On December 14, 2017, the Renewable Energy Fund entered into a Securities Purchase Agreement pursuant to which the Renewable Energy Fund agreed to acquire from the Issuer 6,666,667 shares of Common Stock of the Issuer as well as 5,333,333 warrants exercisable for shares of Common Stock of the Issuer at an exercise price of \$1.00 per share. The Common Stock of the Issuer and the warrants of the Issuer were issued to the Renewable Energy Fund on February 5, 2018. In connection with the Securities Purchase Agreement, the Reporting Persons entered into a certain Voting and Lock-Up Agreement and the Renewable Energy Fund entered into a certain Registration Rights Agreement.

Pursuant to the Voting and Lock-Up Agreement, the Reporting Persons have agreed to vote to elect certain persons designated by Ospraie AG Science LLC and its affiliates to become members of the board of directors of the Issuer (the "Board"). The Reporting Persons are obligated to vote to elect up to two designated persons to become members of the Board at an annual meeting of the Issuer scheduled to take place in 2018. The Reporting Persons are also obligated to vote to elect up to two designated persons are also elect up to two designated persons to become members of the Board at an annual meeting of the Issuer scheduled to take place in 2018. The Reporting Persons are also elect up to two designated persons to become members of the Board at an annual meeting of the Issuer scheduled to take place in 2018.

In addition, pursuant to the Voting and Lock-Up Agreement, the Reporting Persons may not sell or otherwise dispose of any shares of the Common Stock of the Issuer before August 4, 2018.

No Reporting Person has any present plan or proposal which would relate to or result in any of the matters set forth in subparagraphs (a) - (j) of Item 4 of Schedule 13D except as set forth herein or such as would occur upon or in connection with completion of, or following, any of the actions discussed herein. The Reporting Persons intend to review their investment in the Issuer on a continuing basis.

ITEM 5. Interest in Securities of the Issuer

(a)-(b) The Advisor, the Advisor General Partner, the General Partner, and Phillip Hempleman may be deemed, for purposes of Rule 13d-3 under the Securities Exchange Act of 1934, as amended, to be the beneficial owner of an aggregate of 15,656,580 shares of Common Stock as of February 12, 2019, which represent 13.57% of the Issuer's outstanding shares of Common Stock.

(i) Sole power to vote or direct vote: 0

- (ii) Shared power to vote or direct vote: 15,656,580
- (iii) Sole power to dispose of or direct the disposition: 0
- (iv) Shared power to dispose of or direct the disposition: 15,656,580

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The Renewable Energy Fund may be deemed, for purposes of Rule 13d-3 under the Securities Exchange Act of 1934, as amended, to be the beneficial owner of an aggregate of 13,821,580 shares of Common Stock as of February 12, 2019, which represent 11.91% of the Issuer's outstanding shares of Common Stock.

(i) Sole power to vote or direct vote: 0

(ii) Shared power to vote or direct vote: 13,821,580

(iii) Sole power to dispose of or direct the disposition: 0

(iv) Shared power to dispose of or direct the disposition: 13,821,580

The Fund II may be deemed, for purposes of Rule 13d-3 under the Securities Exchange Act of 1934, as amended, to be the beneficial owner of an aggregate of 595,300 shares of Common Stock as of February 12, 2019, which represent 0.54% of the Issuer's outstanding shares of Common Stock.

(i) Sole power to vote or direct vote: 0

(ii) Shared power to vote or direct vote: 595,300

(iii) Sole power to dispose of or direct the disposition: 0

(iv) Shared power to dispose of or direct the disposition: 595,300

The Advanced Healthcare Fund may be deemed, for purposes of Rule 13d-3 under the Securities Exchange Act of 1934, as amended, to be the beneficial owner of an aggregate of 1,189,700 shares of Common Stock as of February 12, 2019, which represent 1.07% of the Issuer's outstanding shares of Common Stock.

(i) Sole power to vote or direct vote: 0

- (ii) Shared power to vote or direct vote: 1,189,700
- (iii) Sole power to dispose of or direct the disposition: 0
- (iv) Shared power to dispose of or direct the disposition: 1,189,700

The Duckdive Fund may be deemed, for purposes of Rule 13d-3 under the Securities Exchange Act of 1934, as amended, to be the beneficial owner of an aggregate of 50,000 shares of Common Stock as of February 12, 2019, which represent 0.05% of the Issuer's outstanding shares of Common Stock.

- (i) Sole power to vote or direct vote: 0
- (ii) Shared power to vote or direct vote: 50,000
- (iii) Sole power to dispose of or direct the disposition: 0
- (iv) Shared power to dispose of or direct the disposition: 50,000

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For purposes of calculating the percentages set forth in this Item 5, the number of shares of Common Stock outstanding is assumed to be 110,690,532, as disclosed in the Issuer's Current Report on Form 10Q dated November 9, 2018.

Each Reporting Person, as a member of a "group" with the other Reporting Persons for the purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, may be deemed the beneficial owner of the shares of Common Stock directly owned by the other Reporting Persons. Each Reporting Person disclaims beneficial ownership of such shares except to the extent of his or its pecuniary interest therein.

(c) Except as disclosed in Item 3 and Item 4 and as set forth below, there have been no transactions in the shares of Common Stock by the Reporting Persons during the past sixty days.

DateShares SoldPriceAugust 6, 201810,000 shares of Common Stock\$2.05August 7, 201815,000 shares of Common Stock\$1.96

(d) The Reporting Persons have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, securities held in their accounts.

Phillip Hempleman by virtue of his status as managing member of the Advisor, the Advisor General Partner, and the General Partner, may be deemed to share with the Advisor, the Advisor General Partner, and the General Partner the power to vote or direct the vote and to dispose or to direct to dispose the disposition of shares of Common Stock of which other Reporting Persons are the direct beneficial owner.

(e) Not applicable.

ITEM 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer.

On December 14, 2017 the Renewable Energy Fund entered into a Securities Purchase Agreement with the Issuer and certain other persons wherein it agreed to purchase 6,666,667 shares of Common Stock of the Issuer and 5,333,333

warrants exercisable for shares of Common Stock of the Issuer for an aggregate purchase price of \$5 million. The shares of Common Stock of the Issuer as well as the warrants were issued by the Issuer to the Renewable Energy Fund on February 5, 2018 (the "Closing Date").

In connection with the execution of the Securities Purchase Agreement the Renewable Energy Fund entered into a Registration Rights Agreement with the Issuer and certain other persons pursuant to which the Issuer will take all appropriate steps and make all the necessary filings in order to register the shares of Common Stock of the Issuer that were acquired pursuant to the Securities Purchase Agreement.

On the Closing Date the Reporting Persons entered into a Voting and Lock-Up Agreement with the Issuer and certain other persons pursuant to which the Reporting Persons are obligated to vote to elect certain designated nominees to the Board of the Issuer and, in connection therewith, agreed to certain restrictions upon their respective ability to sell or otherwise dispose of any securities of the Issuer.

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ITEM 7. Material to be Filed as Exhibits.

Exhibit 1 – Joint Filing Agreement, dated February 5, 2018.

Exhibit 2 -Securities Purchase Agreement

Exhibit 3—Registration Rights Agreement

Exhibit 4-Voting and Lock-Up Agreement

² Filed as Exhibit 1 to the Reporting Persons Schedule 13D filed February 7, 2018.

³ Filed as Exhibit 2 to the Reporting Persons Schedule 13D filed February 7, 2018.

⁴ Filed as Exhibit 3 to the Reporting Persons Schedule 13D filed February 7, 2018.

⁵ Filed as Exhibit 4 to the Reporting Persons Schedule 13D filed February 7, 2018.

CUSIP No. 57165B106 13D/APage 15 of 15 Pages 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 12, 2019 Date

ARDSLEY ADVISORY PARTNERS LP

/s/ Steve Napoli Signature

Steve Napoli/ Member of its general partner Name/Title

February 12, 2019 Date

ARDSLEY ADVISORY PARTNERS GP LLC

/s/ Steve Napoli Signature

Steve Napoli/Member Name/Title

February 12, 2019 Date

ARDSLEY PARTNERS I GP LLC

/s/ Steve Napoli Signature

Steve Napoli/Member

February 12, 2019 Date

PHILIP J. HEMPLEMAN

/s/ Steve Napoli* Signature

Steve Napoli/Attorney-in Fact for Philip J. Hempleman

Name/Title

February 12, 2019 Date

ARDSLEY PARTNERS FUND II, L.P. By: Ardsley Partners I GP LLC, General Partner

/s/ Steve Napoli Signature

Steve Napoli/Member

February 12, 2019 Date

ARDSLEY PARTNERS ADVANCED HEALTHCARE FUND, L.P. By: Ardsley Partners I GP LLC, General Partner

/s/ Steve Napoli Signature

Steve Napoli/Member

February 12, 2019 Date

ARDSLEY PARTNERS RENEWABLE ENERGY FUND, L.P. By: Ardsley Partners I GP LLC, General Partner

/s/ Steve Napoli Signature

Steve Napoli/Member

February 12, 2019 Date

ARDSLEY DUCKDIVE FUND, L.P. By: Ardsley Partners I GP LLC, General Partner

/s/ Steve Napoli Signature

Steve Napoli/Member

* Executed by Steve Napoli as Attorney-in-Fact for Philip J. Hempleman. The Power of Attorney for Mr. Hempleman is attached as Exhibit 2 to the Statement on Schedule 13G/A with respect to the Common Stock of Vaxgen, Inc., filed on February 15, 2006, and is incorporated herein by reference.

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. *See* §240.13d-7 for other parties for whom copies are to be sent.

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