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

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**SCHEDULE 13D**  
(Rule 13d-102)

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**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO RULE 13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT  
TO RULE 13d-2(a)  
(Amendment No. 5)\***

**Black Diamond Therapeutics, Inc.**  
(Name of Issuer)

**Common Stock, par value \$0.0001 per share**  
(Title of Class of Securities)

**09203E105**  
(CUSIP Number)

**Versant Venture Capital VI, L.P.**  
**Max Eisenberg**  
**One Sansome Street, Suite 1650**  
**San Francisco, CA 94104**  
**415-801-8100**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

**August 11, 2023**  
(Date of Event Which Requires Filing of this Statement)

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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 §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

\* 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 disclosures provided in a prior cover page.

The information required on 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.

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1.	Name of Reporting Persons Versant Venture Capital VI, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) WC	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 3,947,941 shares of common stock (2)
	8.	Shared Voting Power 0
	9.	Sole Dispositive Power 3,947,941 shares of common stock (2)
	10.	Shared Dispositive Power 0
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 3,947,941 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 7.7% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by Versant Venture Capital VI, L.P. (“Versant VI”), Versant Voyageurs I Parallel, L.P. (“Versant I Parallel”), Versant Voyageurs I, L.P. (“Versant Voyageurs I”), Versant Vantage I, L.P. (“Versant Vantage I”), Versant Ventures VI GP, L.P. (“Versant Ventures VI GP”), Versant Ventures VI GP-GP, LLC (“Versant Ventures VI GP-GP”), Versant Voyageurs I GP, L.P. (“Versant Voyageurs I GP LP”), Versant Voyageurs I GP Company (“Versant Voyageurs I GP”), Versant Vantage I GP, L.P. (“Versant Vantage I GP LP”) and Versant Vantage I GP-GP, LLC (“Versant Vantage I GP-GP” and, with Versant VI, Versant I Parallel, Versant Voyageurs I, Versant Vantage I, Versant Ventures VI GP, Versant Ventures VI GP-GP, Versant Voyageurs I GP LP, Versant Voyageurs I GP, and Versant Vantage I GP LP, collectively, the “Reporting Persons”). The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant VI. Versant Ventures VI GP-GP is the general partner of Versant Ventures VI GP, which is the general partner of Versant VI. Each of Versant Ventures VI GP-GP and Versant Ventures VI GP share voting and dispositive power with respect to the shares held by Versant VI.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Issuer’s quarterly report on Form 10-Q for the quarter ended June 30, 2023, as filed with the Securities and Exchange Commission on August 11, 2023 (the “Form 10-Q”).

1.	Name of Reporting Persons Versant Ventures VI GP, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 4,328,883 shares of common stock (2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 4,328,883 shares of common stock (2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 4,328,883 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 8.4% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) Includes (i) 3,947,941 shares held by Versant VI and (ii) 380,942 shares held by Versant I Parallel. Versant Voyageurs I GP LP is the general partner of Versant I Parallel. Versant Ventures VI GP is the general partner of Versant Voyageurs I GP LP. Versant Ventures VI GP-GP is the general partner of Versant Ventures VI GP, which is the general partner of Versant VI. Each of Versant Ventures VI GP-GP and Versant Ventures VI GP share voting and dispositive power with respect to the shares held by Versant VI and Versant I Parallel.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Ventures VI GP-GP, LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 4,328,883 shares of common stock (2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 4,328,883 shares of common stock (2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 4,328,883 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 8.4% (3)	
14.	Type of Reporting Person (See Instructions) OO	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) Includes (i) 3,947,941 shares held by Versant VI and (ii) 380,942 shares held by Versant I Parallel. Versant Voyageurs I GP LP is the general partner of Versant I Parallel. Versant Ventures VI GP is the general partner of Versant Voyageurs I GP LP. Versant Ventures VI GP-GP is the general partner of Versant Ventures VI GP, which is the general partner of Versant VI. Each of Versant Ventures VI GP-GP and Versant Ventures VI GP share voting and dispositive power with respect to the shares held by Versant VI and Versant I Parallel.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Voyageurs I Parallel, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) WC	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Ontario Canada	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 380,942 shares of common stock (2)
	8.	Shared Voting Power 0
	9.	Sole Dispositive Power 380,942 shares of common stock (2)
	10.	Shared Dispositive Power 0
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 380,942 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 0.7% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant I Parallel. Versant Voyageurs I GP LP is the general partner of Versant I Parallel. Versant Ventures VI GP is the general partner of Versant Voyageurs I GP LP. Versant Ventures VI GP-GP is the general partner of Versant Ventures VI GP. Each of Versant Voyageurs I GP LP, Versant Ventures VI GP and Versant Ventures VI GP-GP share voting and dispositive power with respect to the shares held by Versant I Parallel.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Voyageurs I GP, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 380,942 shares of common stock (2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 380,942 shares of common stock (2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 380,942 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 0.7% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant I Parallel. Versant Voyageurs I GP LP is the general partner of Versant I Parallel. Versant Ventures VI GP is the general partner of Versant Voyageurs I GP LP. Versant Ventures VI GP-GP is the general partner of Versant Ventures VI GP. Each of Versant Voyageurs I GP LP, Versant Ventures VI GP and Versant Ventures VI GP-GP share voting and dispositive power with respect to the shares held by Versant I Parallel.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Voyageurs I, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) WC	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Ontario Canada	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 1,277,541 shares of common stock (2)
	8.	Shared Voting Power 0
	9.	Sole Dispositive Power 1,277,541 shares of common stock (2)
	10.	Shared Dispositive Power 0
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,277,541 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 2.5% (3)	
14.	Type of Reporting Person (See Instructions) PN	

(1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.

(2) These shares are held by Versant Voyageurs I. Versant Voyageurs I GP is the general partner of Versant Voyageurs I and shares voting and dispositive power with respect to the shares held by Versant Voyageurs I.

(3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Voyageurs I GP Company	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Nova Scotia, Canada	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 1,277,541 shares of common stock (2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 1,277,541 shares of common stock (2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 1,277,541 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 2.5% (3)	
14.	Type of Reporting Person (See Instructions) OO	

(1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.

(2) These shares are held by Versant Voyageurs I. Versant Voyageurs I GP is the general partner of Versant Voyageurs I and shares voting and dispositive power with respect to the shares held by Versant Voyageurs I.

(3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.



1.	Name of Reporting Persons Versant Vantage I, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) WC	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 822,140 shares of common stock (2)
	8.	Shared Voting Power 0
	9.	Sole Dispositive Power 822,140 shares of common stock (2)
	10.	Shared Dispositive Power 0
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 822,140 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 1.6% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant Vantage I. Versant Vantage I GP LP is the general partner of Versant Vantage I and Versant Vantage I GP-GP is the general partner of Versant Vantage I GP LP. Each of Versant Vantage I GP LP and Versant Vantage I GP-GP share voting and dispositive power with respect to the shares held by Versant Vantage I.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Vantage I GP, L.P.	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 822,140 shares of common stock(2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 822,140 shares of common stock(2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 822,140 shares of common stock (2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 1.6% (3)	
14.	Type of Reporting Person (See Instructions) PN	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant Vantage I. Versant Vantage I GP LP is the general partner of Versant Vantage I, and Versant Vantage I GP-GP is the general partner of Versant Vantage I GP LP. Each of Versant Vantage I GP LP and Versant Vantage I GP-GP share voting and dispositive power with respect to the shares held by Versant Vantage I.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

1.	Name of Reporting Persons Versant Vantage I GP-GP, LLC	
2.	Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> (1)	
3.	SEC Use Only	
4.	Source of Funds (See Instructions) AF	
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Item 2(d) or 2(e) <input type="checkbox"/>	
6.	Citizenship or Place of Organization Delaware	
Number of Shares Beneficially Owned by Each Reporting Person With	7.	Sole Voting Power 0
	8.	Shared Voting Power 822,140 shares of common stock(2)
	9.	Sole Dispositive Power 0
	10.	Shared Dispositive Power 822,140 shares of common stock(2)
11.	Aggregate Amount Beneficially Owned by Each Reporting Person 822,140 shares of common stock(2)	
12.	Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/>	
13.	Percent of Class Represented by Amount in Row 11 1.6% (3)	
14.	Type of Reporting Person (See Instructions) OO	

- (1) This Schedule 13D is filed by the Reporting Persons. The Reporting Persons expressly disclaim status as a “group” for purposes of this Schedule 13D.
- (2) These shares are held by Versant Vantage I. Versant Vantage I GP LP is the general partner of Versant Vantage I, and Versant Vantage I GP-GP is the general partner of Versant Vantage I GP LP. Each of Versant Vantage I GP LP and Versant Vantage I GP-GP share voting and dispositive power with respect to the shares held by Versant Vantage I.
- (3) The percentages used herein are calculated based upon 51,575,323 shares issued and outstanding as of August 1, 2023 as set forth in the Form 10-Q.

**Explanatory Note:**

This Amendment No. 5 (“Amendment”) amends and supplements the Schedule 13D originally filed with the United States Securities and Exchange Commission (the “Commission”) on February 13, 2020, as amended by Amendment No. 1 filed with the Commission on August 21, 2020, Amendment No. 2 filed with the Commission on September 25, 2020, Amendment No. 3 filed with the Commission on November 23, 2020, and Amendment No. 4 filed with the Commission on December 3, 2020 (collectively, the “Original Schedule 13D”). Only those items that are hereby reported are amended; all other items reported in the Original Schedule 13D remain unchanged. Information given in response to each item shall be deemed incorporated by reference in all other items, as applicable. Capitalized terms not defined in this Amendment have the meanings ascribed to them in the Original Schedule 13D.

**Item 1. Security and Issuer**

The address of the principal executive offices of the Issuer is One Main Street, 14<sup>th</sup> Floor, Cambridge, MA 02142.

**Item 2. Identity and Background**

(b) The principal business and principal business office of the Reporting Persons is Versant Ventures, One Sansome Street, Suite 1650, San Francisco, CA 94104.

**Item 5. Interest in Securities of the Issuer**

This information reported below is based on a total of 51,575,323 shares of the Issuer’s Common Stock outstanding as of August 1, 2023, as reported on the Issuer’s Form 10-Q filed with the Commission on August 11, 2023. This Amendment No. 5 is being filed to update the aggregate percentage of the Issuer’s Common Stock owned by the Reporting Persons due to dilution caused by the Issuer’s sales of additional shares of its Common Stock from time to time since the date of the filing of the Original Schedule 13D. Such transactions resulted in a decrease of over one percent (1%) in the aggregate percentage ownership reported by the Reporting Persons in the Original Schedule 13D.

(a) and (b) See Items 7-11 of the cover pages of this Amendment and Item 2 above.

**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.

November 9, 2023

**Versant Venture Capital VI, L.P.**

By: Versant Ventures VI GP, L.P.

Its: General Partner

By: Versant Ventures VI GP-GP, LLC

Its: General Partner

By: /s/ Max Eisenberg, Chief Operating Officer

**Versant Ventures VI GP, L.P.**

By: Versant Ventures VI GP-GP, LLC

Its: General Partner

By: /s/ Max Eisenberg, Chief Operating Officer

**Versant Ventures VI GP-GP, LLC**

By: /s/ Max Eisenberg, Chief Operating Officer

**Versant Voyageurs I Parallel, L.P.**

By: Versant Voyageurs I GP, L.P.

Its: General Partner

By: Versant Ventures VI GP, L.P.

Its: General Partner

By: Versant Ventures VI GP-GP, LLC

Its: General Partner

By: /s/ Max Eisenberg, Chief Operating Officer

**Versant Voyageurs I GP, L.P.**

By: Versant Ventures VI GP, L.P.

Its: General Partner

By: Versant Ventures VI GP-GP, LLC

Its: General Partner

/s/ Max Eisenberg, Chief Operating Officer

**Versant Voyageurs I, L.P.**

By: Versant Voyageurs I GP Company

Its: General Partner

/s/ Max Eisenberg, Chief Operating Officer

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**Versant Voyageurs I GP Company**

/s/ Max Eisenberg, Chief Operating Officer

**Versant Vantage I, L.P.**

By: Versant Vantage I GP, L.P.

Its: General Partner

By: Versant Vantage I GP-GP, LLC

Its: General Partner

/s/ Max Eisenberg, Chief Operating Officer

**Versant Vantage I GP, L.P.**

By: Versant Vantage I GP-GP, LLC

Its: General Partner

/s/ Max Eisenberg, Chief Operating Officer

**Versant Vantage I GP-GP, LLC**

/s/ Max Eisenberg, Chief Operating Officer