

PACIFIC BIOSCIENCES OF CALIFORNIA, INC.  
Form SC 13G/A  
February 17, 2015

**SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

**SCHEDULE 13G**

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

**Pacific Biosciences of California, Inc.**

(Name of Issuer)

**Common Stock**

(Title of Class of Securities)

**69404D108**

(CUSIP Number)

**December 31, 2014**

(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 the Notes).

CUSIP No. 69404D108

13G

- |     |   |
|-----|---|
| 1.  | Names of Reporting Persons<br>MDV VII, L.P.   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="checkbox"/> (1) |
| 3.  | SEC Use Only  |
| 4.  | Citizenship or Place of Organization<br>Delaware, United States of America  |
| 5.  | Sole Voting Power<br>0 Shares   |
| 6.  | Shared Voting Power<br>5,074,066 Shares of Common Stock (2)   |
| 7.  | Sole Dispositive Power<br>0 Shares  |
| 8.  | Shared Dispositive Power<br>5,074,066 Shares of Common Stock (2)  |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>5,074,066 Shares of Common Stock (2)  |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                       |
| 11. | Percent of Class Represented by Amount in Row 9<br>7.1% (3)   |
| 12. | Type of Reporting Person (See Instructions)<br>PN   |

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person With:

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

CUSIP No. 69404D108

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| 1.  | Names of Reporting Persons<br>MDV VII Leaders Fund, L.P.   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="radio"/> (1) |
| 3.  | SEC Use Only   |
| 4.  | Citizenship or Place of Organization<br>Delaware, United States of America   |
| 5.  | Sole Voting Power<br>0 Shares  |
| 6.  | Shared Voting Power<br>370,333 Shares of Common Stock (2)  |
| 7.  | Sole Dispositive Power<br>0 Shares   |
| 8.  | Shared Dispositive Power<br>370,333 Shares of Common Stock (2)   |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>370,333 Shares of Common Stock (2)   |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                    |
| 11. | Percent of Class Represented by Amount in Row 9<br>0.5% (3)  |
| 12. | Type of Reporting Person (See Instructions)<br>PN  |

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. as nominee for MDV VII Leaders Fund, L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

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| 1.  | Names of Reporting Persons<br>MDV ENF VII(A), L.P.   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="radio"/> (1) |
| 3.  | SEC Use Only   |
| 4.  | Citizenship or Place of Organization<br>Delaware, United States of America   |
| 5.  | Sole Voting Power<br>0 Shares  |
| 6.  | Shared Voting Power<br>101,267 Shares of Common Stock (2)  |
| 7.  | Sole Dispositive Power<br>0 Shares   |
| 8.  | Shared Dispositive Power<br>101,267 Shares of Common Stock (2)   |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>101,267 Shares of Common Stock (2)   |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                    |
| 11. | Percent of Class Represented by Amount in Row 9<br>0.1% (3)  |
| 12. | Type of Reporting Person (See Instructions)<br>PN  |

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. as nominee for MDV ENF VII(A), L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

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| 1.  | Names of Reporting Persons<br>MDV ENF VII(B), L.P.   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="radio"/> (1) |
| 3.  | SEC Use Only   |
| 4.  | Citizenship or Place of Organization<br>Delaware, United States of America   |
| 5.  | Sole Voting Power<br>0 Shares  |
| 6.  | Shared Voting Power<br>52,731 Shares of Common Stock (2)   |
| 7.  | Sole Dispositive Power<br>0 Shares   |
| 8.  | Shared Dispositive Power<br>52,731 Shares of Common Stock (2)  |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>52,731 Shares of Common Stock (2)  |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                    |
| 11. | Percent of Class Represented by Amount in Row 9<br>0.1% (3)  |
| 12. | Type of Reporting Person (See Instructions)<br>PN  |

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person With:

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. as nominee for MDV ENF VII(B), L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

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|-----|--|
| 1.  | Names of Reporting Persons<br>Seventh MDV Partners, L.L.C.   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="radio"/> (1) |
| 3.  | SEC Use Only   |
| 4.  | Citizenship or Place of Organization<br>Delaware, United States of America   |
| 5.  | Sole Voting Power<br>0 Shares  |
| 6.  | Shared Voting Power<br>5,598,397 Shares of Common Stock (2)  |
| 7.  | Sole Dispositive Power<br>0 Shares   |
| 8.  | Shared Dispositive Power<br>5,598,397 Shares of Common Stock (2)   |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>5,598,397 Shares of Common Stock (2)   |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                    |
| 11. | Percent of Class Represented by Amount in Row 9<br>7.8% (3)  |
| 12. | Type of Reporting Person (See Instructions)<br>OO  |

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. and by MDV VII, L.P. as nominee for MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., and MDV ENF VII(B), L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

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| 1.  | Names of Reporting Persons<br>Nancy Schoendorf   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="radio"/> (1) |
| 3.  | SEC Use Only   |
| 4.  | Citizenship or Place of Organization<br>United States of America   |
| 5.  | Sole Voting Power<br>0 Shares  |
| 6.  | Shared Voting Power<br>5,598,397 Shares of Common Stock (2)  |
| 7.  | Sole Dispositive Power<br>0 Shares   |
| 8.  | Shared Dispositive Power<br>5,598,397 Shares of Common Stock (2)   |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>5,598,397 Shares of Common Stock (2)   |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                    |
| 11. | Percent of Class Represented by Amount in Row 9<br>7.8% (3)  |
| 12. | Type of Reporting Person (See Instructions)<br>IN  |

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. and by MDV VII, L.P. as nominee for MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., and MDV ENF VII(B), L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

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|-----|---|
| 1.  | Names of Reporting Persons<br>Jonathan Feiber   |
| 2.  | Check the Appropriate Box if a Member of a Group (See Instructions)<br>(a) <input type="radio"/><br>(b) <input checked="" type="checkbox"/> (1) |
| 3.  | SEC Use Only  |
| 4.  | Citizenship or Place of Organization<br>United States of America  |
| 5.  | Sole Voting Power<br>0 Shares   |
| 6.  | Shared Voting Power<br>5,598,397 Shares of Common Stock (2)   |
| 7.  | Sole Dispositive Power<br>0 Shares  |
| 8.  | Shared Dispositive Power<br>5,598,397 Shares of Common Stock (2)  |
| 9.  | Aggregate Amount Beneficially Owned by Each Reporting Person<br>5,598,397 Shares of Common Stock (2)  |
| 10. | Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) <input type="radio"/>                                       |
| 11. | Percent of Class Represented by Amount in Row 9<br>7.8% (3)   |
| 12. | Type of Reporting Person (See Instructions)<br>IN   |

(1) This Schedule 13G is filed by MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., MDV ENF VII(B), L.P. (collectively, MDV ), Seventh MDV Partners, L.L.C. ( Seventh ), Nancy Schoendorf, and Jonathan Feiber (collectively, the Fund Entities ). The Fund Entities expressly disclaim status as a group for purposes of this Schedule 13G.

(2) Shares directly held by MDV VII, L.P. and by MDV VII, L.P. as nominee for MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., and MDV ENF VII(B), L.P. Jonathan Feiber and Nancy Schoendorf are managing members of Seventh, the general partner of MDV. Each of Jonathan Feiber, Nancy Schoendorf, and Seventh may be deemed to share voting and dispositive power over the shares held by MDV.

(3) This percentage is calculated based on 71,356,003 shares of the Issuer s stock outstanding (as of October 31, 2014), as set forth in the Issuer s most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.



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Introductory Note: This Statement on Schedule 13G is filed on behalf of 1) MDV VII, L.P., a limited partnership organized under the laws of the State of Delaware; 2) MDV VII Leaders Fund, L.P., a limited partnership organized under the laws of the State of Delaware; 3) MDV ENF VII(A), L.P., a limited partnership organized under the laws of the State of Delaware; 4) MDV ENF VII(B), L.P. (together with MDV VII, L.P., MDV VII Leaders Fund, L.P., and MDV ENF VII(A), L.P., MDV ), a limited partnership organized under the laws of the State of Delaware; 2) Seventh MDV Partners, L.L.C. ( Seventh ), a limited liability company organized under the laws of the State of Delaware and the General Partner of MDV; 3) Nancy Schoendorf, a managing member of Seventh; and 4) Jonathan Feiber, a managing member of Seventh; in respect of shares of Common Stock of Pacific Biosciences of California, Inc.

- Item 1(a).** Name of Issuer:  
Pacific Biosciences of California, Inc.
- Item 1(b).** Address of Issuer's Principal Executive Offices:  
1380 Willow Road, Menlo Park, CA 94025
- Item 2(a).** Name of Person Filing:  
MDV VII, L.P.
- MDV VII Leaders Fund, L.P.
- MDV ENF VII(A), L.P.
- MDV ENF VII(B), L.P.
- Seventh MDV Partners, L.L.C.
- Nancy Schoendorf
- Jonathan Feiber
- Item 2(b).** Address of Principal Business Office or, if none, Residence:  
3000 Sand Hill Road, Bldg. 3, Suite 290, Menlo Park, CA 94025
- Item 2(c).** Citizenship:  
All entities were organized in Delaware. The individuals are all United States citizens.
- Item 2(d).** Title of Class of Securities:  
Common Stock
- Item 2(e).** CUSIP Number:  
69404D108
- 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:**  
Not applicable.

**Item 4. Ownership**

<b>Fund Entities</b>	<b>Shares Held Directly</b>	<b>Sole Voting Power</b>	<b>Shared Voting Power</b>	<b>Sole Dispositive Power</b>	<b>Shared Dispositive Power</b>	<b>Beneficial Ownership</b>	<b>Percentage of Class (2)</b>
MDV VII, L.P.	5,074,066	0	5,074,066	0	5,074,066	5,074,066	7.1%
MDV VII Leaders Fund, L.P.	370,333	0	370,333	0	370,333	370,333	0.5%
MDV ENF VII(A), L.P.	101,267	0	101,267	0	101,267	101,267	0.1%
MDV ENF VII(B), L.P.	52,731	0	52,731	0	52,731	52,731	0.1%
Seventh MDV Partners, L.L.C. (1)	0	0	5,598,397	0	5,598,397	5,598,397	7.8%
Nancy Schoendorf (1)	0	0	5,598,397	0	5,598,397	5,598,397	7.8%
Jonathan Feiber (1)	0	0	5,598,397	0	5,598,397	5,598,397	7.8%

(1) Seventh MDV Partners, L.L.C. serves as the general partner of MDV VII, L.P., MDV VII Leaders Fund, L.P., MDV ENF VII(A), L.P., and MDV ENF VII(B), L.P. and owns no securities of the Issuer directly. Nancy Schoendorf and Jonathan Feiber serve as managing members of Seventh MDV Partners, L.L.C. and own no securities of the Issuer directly.

(2) This percentage is calculated based on 71,356,003 shares of the Issuer's stock outstanding (as of October 31, 2014), as set forth in the Issuer's most recent 10-Q, filed with the Securities and Exchange Commission on November 5, 2014.

**Item 5. Ownership of 5 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 5 percent of the class of securities, check the following .

**Item 6. Ownership of More than 5 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 or Control Person.**

Not applicable.

**Item 8. Identification and Classification of Members of the Group**

Not applicable.

**Item 9. Notice of Dissolution of a 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.

Dated: February 13, 2015

**SEVENTH MDV PARTNERS, L.L.C.**

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

**MDV VII, L.P.**

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

**MDV VII Leaders Fund, L.P.**

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

**MDV ENF VII(A), L.P.**

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

**MDV ENF VII(B), L.P.**

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

/s/ Jonathan Feiber  
Jonathan Feiber

/s/ Nancy Schoendorf  
Nancy Schoendorf

**EXHIBITS**

A: Joint Filing Agreement



EXHIBIT A

**JOINT FILING AGREEMENT**

We, the undersigned, hereby express our agreement that the attached Schedule 13G (or any amendments thereto) relating to the Common Stock of Pacific Biosciences of California, Inc. is filed on behalf of each of us.

Dated: February 13, 2015

SEVENTH MDV PARTNERS, L.L.C.

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

MDV VII, L.P.

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

MDV ENF VII(A), L.P.

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

/s/ Jonathan Feiber  
Jonathan Feiber

MDV VII Leaders Fund, L.P.

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

MDV ENF VII(B), L.P.

By: Seventh MDV Partners, L.L.C.,  
its General Partner

By: /s/ Jonathan Feiber  
Name: Jonathan Feiber  
Title: Managing Member

/s/ Nancy Schoendorf  
Nancy Schoendorf