PACIFIC BIOSCIENCES OF CALIFORNIA INC Form SC 13G April 01, 2011

SECURITIES AND EXCHANGE COMMISSION Washington, D.C.20549

Schedule 13G

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1 (b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO 13d-2 (b)

(Amendment No. _____)*

Pacific Biosciences of California, Inc. (Name of Issuer)

Common Stock (Title of Class of Securities)

69404D108 (CUSIP Number)

December 31, 2010 (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)
- x 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 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 (however, see the Notes).

(Continued on following pages)

Page 1 of 15 Pages Exhibit Index Contained on Page 14

CUS	SIP NO. 69404D108		13 G	Page 2of 15			
1	NAME OF REPORTING PERSONS MDV VII, L.P. ("MDV VII")						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP						
	(a) " (b) x						
3	SEC USE ONLY						
4	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
		5	SOLE VOTING POWE	ER			
			4,113,179 shares, excep	t that Seventh MDV Partners, L.L.C. ("Seventh			
	NUMBER OF		MDV"), the general par	tner of MDV VII, may be deemed to have sole			
	SHARES		power to vote these sha	res, and William W. Ericson ("Ericson"), Nancy J.			
	BENEFICIALLY			orf") and Jonathan D. Feiber ("Feiber"), members of			
	OWNED BY EACH			deemed to have shared power to vote these shares.			
	REPORTING	6	SHARED VOTING PC	WER			
	PERSON		See response to row 5.				
	WITH	7	SOLE DISPOSITIVE F				
				t that Seventh MDV, the general partner of MDV			
			•	have sole power to dispose of these shares, and			
				d Feiber, members of Seventh MDV, may be			
				power to dispose of these shares.			
		8	SHARED DISPOSITIV	'E POWER			
			See response to row 7.				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
				4,113,179			
10	CHECK BOX IF T	HE AGG	REGATE AMOUNT IN RO	OW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLA	ASS REP	RESENTED BY AMOUNT	IN ROW 9			
				7.8%			
12	TYPE OF REPORT	TING PE	RSON				
				PN			

CUS	IP NO. 69404D108		13 G	Page 3of 15		
1	NAME OF REPORTING PERSONS MDV VII Leaders' Fund, L.P. ("MDV VII LF")					
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP					
	· /	(b)	X			
3	SEC USE ONLY					
4						
	Delaware	_				
		5	SOLE VOTING POWE			
	AND OPEN OF			that Seventh MDV, the general partner of MDV VII		
	NUMBER OF		•	have sole power to vote these shares, and Ericson,		
	SHARES			members of Seventh MDV, may be deemed to have		
	BENEFICIALLY	(shared power to vote th			
	OWNED BY EACH	6	SHARED VOTING PO	OWER		
	REPORTING	7	See response to row 5.	OWED		
	PERSON	7	SOLE DISPOSITIVE F			
	WITH			that Seventh MDV, the general partner of MDV VII		
				have sole power to dispose of these shares, and		
				d Feiber, members of Seventh MDV, may be power to dispose of these shares.		
		8	SHARED DISPOSITIV	•		
		0	See response to row 7.	EFOWER		
9	ACCDECATE AM	OUNT E	•	BY EACH REPORTING PERSON		
9	AGGREGATE AM	IOUNTL	BENEFICIALLI OWNED I	345,722		
10	· · · · · · · · · · · · · · · · · · ·					
10	CILCI BOX II	11L 7100	REOTTE THUOUTIT IT IN	"		
11	1 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9					
				0.7%		
12	TYPE OF REPORT	TING PE	RSON			
				PN		

CUSIP NO. 69404D108		13 G	Page 4of 15				
1	NAME OF REPORTING PERSONS MDV ENF VII (A), L.P. ("MDV ENF A")						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP						
2	(a) " (b) x						
3							
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware						
	Delaware	5	SOLE VOTING POW	ER			
				hat Seventh MDV, the general partner of MDV ENF			
	NUMBER OF			ave sole power to vote these shares, and Ericson,			
	SHARES			, members of Seventh MDV, may be deemed to have			
	BENEFICIALLY		shared power to vote th				
	OWNED BY EACH	6	SHARED VOTING PO	OWER			
	REPORTING		See response to row 5.				
	PERSON	7	SOLE DISPOSITIVE				
	WITH			hat Seventh MDV, the general partner of MDV ENF			
				ave sole power to dispose of these shares, and			
				d Feiber, members of Seventh MDV, may be			
		0	SHARED DISPOSITI	power to dispose of these shares.			
		8		VE POWER			
9	See response to row 7.						
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 91,731						
10	·						
10	" CHECK BOA II' THE AUGREGATE AMOUNT IN KOW (9) EACLODES CERTAIN SHAKES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
				0.2%			
12	TYPE OF REPORT	ΓING PEI	RSON				
				PN			

CUS	SIP NO. 69404D108		13 G	Page 5of 15			
1	NAME OF REPORTING PERSONS MDV ENF VII (B), L.P. ("MDV ENF B")						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP						
	` '	(b)	X				
3	SEC USE ONLY						
4							
	Delaware	_					
		5	SOLE VOTING POW				
			_	hat Seventh MDV, the general partner of MDV ENF			
	NUMBER OF		•	ave sole power to vote these shares, and Ericson,			
	SHARES			members of Seventh MDV, may be deemed to have			
	BENEFICIALLY	(shared power to vote the				
	OWNED BY EACH	6	SHARED VOTING PO	JWER			
	REPORTING	7	See response to row 5.	DOWED			
	PERSON WITH	7	SOLE DISPOSITIVE				
	WIII		_	that Seventh MDV, the general partner of MDV			
			· · · · · · · · · · · · · · · · · · ·	d to have sole power to dispose of these shares, and d Feiber, members of Seventh MDV, may be			
				power to dispose of these shares.			
		8	SHARED DISPOSITI	•			
		0	See response to row 7.	VE I O WER			
9	AGGREGATE AM	IOLINT :	•	BY EACH REPORTING PERSON			
	MOGREONTE MIN	100111	BENEFICIALET OWNED	47,765			
10	·						
1.0	"						
11	1 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
				0.1%			
12	TYPE OF REPORT	ΓING PE	ERSON				
				PN			

NAME OF REPORTING PERSONS Seventh MDV Partners, L.L.C.					
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)					
(a) " (b) x					
3 SEC USE ONLY					
CITIZENSHIP OR PLACE OF ORGANIZATION					
Delaware					
5 SOLE VOTING POWER					
4,598,397 shares, of which 4,113,179 are directly owned by MDV VII,					
NUMBER OF 345,722 are directly owned by MDV VII LF, 91,731 are directly owned	•				
SHARES MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh					
BENEFICIALLY MDV, the general partner of MDV VII, MDV VII LF, MDV ENF A an					
OWNED BY EACH REPORTING MDV ENF B, may be deemed to have sole power to vote these shares, a Ericson, Schoendorf and Feiber, members of Seventh MDV, may be	s, and				
REPORTING Ericson, Schoendorf and Feiber, members of Seventh MDV, may be PERSON deemed to have shared power to vote these shares.					
WITH 6 SHARED VOTING POWER					
See response to row 5.					
7 SOLE DISPOSITIVE POWER					
4,598,397 shares, of which 4,113,179 are directly owned by MDV VII,	I.				
345,722 are directly owned by MDV VII LF, 91,731 are directly owned					
MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh	•				
MDV, the general partner of MDV VII, MDV VII LF, MDV ENF A an	and				
MDV ENF B, may be deemed to have sole power to dispose of these					
shares, and Ericson, Schoendorf and Feiber, members of Seventh MDV	V,				
may be deemed to have shared power to dispose of these shares.					
8 SHARED DISPOSITIVE POWER					
See response to row 7.					
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
4,598,397					
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EYCLUDES CERTAIN SHARES (See Instructions)					
EXCLUDES CERTAIN SHARES (See Instructions) 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
8.7%					
12 TYPE OF REPORTING PERSON (See Instructions)					
OO					

1 NAME OF REPORTING PERSONS William W. Ericson 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) "(b) x 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION U.S. Citizen NUMBER OF 5 SOLE VOTING POWER Oshares. SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV ENF A and 47,765 are directly owned by MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and REPORTING Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares. PERSON 7 SOLE DISPOSITIVE POWER					
3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION U.S. Citizen NUMBER OF 5 SOLE VOTING POWER Oshares. SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
4 CITIZENSHIP OR PLACE OF ORGANIZATION U.S. Citizen NUMBER OF 5 SOLE VOTING POWER Oshares. SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
NUMBER OF 5 SOLE VOTING POWER Oshares. SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
NUMBER OF 5 SOLE VOTING POWER Oshares. SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and REPORTING Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
SHARES 6 SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
BENEFICIALLY 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh OWNED BY EACH MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote these shares, and Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
MDV ENF B, may be deemed to have sole power to vote these shares, and REPORTING Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
REPORTING Feiber and Schoendorf, members of Seventh MDV, may be deemed to have shared power to vote these shares.					
shared power to vote these shares.					
0 shares.					
WITH 8 SHARED DISPOSITIVE POWER					
4,598,397 shares, of which 4,113,179 are directly owned by MDV VII, 345,722 are directly owned by MDV VII LF, 91,731 are directly owned by					
MDV ENF A and 47,765 are directly owned by MDV ENF B. Seventh					
MDV is the general partner of MDV VII, MDV VII LF, MDV ENF A and					
MDV ENF B, and Feiber and Schoendorf, members of Seventh MDV, may					
be deemed to have shared power to dispose of these shares.					
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,598,397					
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9					
8.7%					
12 TYPE OF REPORTING PERSON IN					

CUSIP NO. 69404D108		13 G Page 8of 15					
1 2	NAME OF REPOR' CHECK THE APPE GROUP		SONS Nancy J. School BOX IF A MEMBER C			(b)	X
3 4	SEC USE ONLY CITIZENSHIP OR I U.S. Citizen	PLACE OF	FORGANIZATION				
NUMBE	ER OF	5	SOLE VOTING POW 0 shares.	ER			
	SHARES	6	SHARED VOTING PO		170 omo di		and ha MDV VII
В	ENEFICIALLY		345,722 are directly ov	vned by MI	OV VII L	F, 91,731	l are directly owned by
OWNED BY EACH MDV ENF A and 47,76 MDV is the general par MDV ENF B, may be d				rtner of MI	OV VII, M	IDV VII	
	REPORTING		Ericson and Feiber, me shared power to vote the	embers of S	eventh M	•	
	PERSON	7	SOLE DISPOSITIVE 0 shares.				
	WITH	8	SHARED DISPOSITE 4,598,397 shares, of w 345,722 are directly ov MDV ENF A and 47,7 MDV is the general pa MDV ENF B, and Eric	hich 4,113, wned by MI 65 are direct rtner of MI eson and Fe	179 are di DV VII Li ctly owne DV VII, M iber, men	F, 91,731 d by MD IDV VII nbers of S	I are directly owned by DV ENF B. Seventh LF, MDV ENF A and Seventh MDV, may be
9	deemed to have shared power to dispose of these shares. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON						
10	4,598,397 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
12	8.7% TYPE OF REPORTING PERSON IN						

CUSIP NO. 69404D108	13 G	Page 9of 15					
	NAME OF REPORTING PERSONS Jonathan D. Feiber CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) " (b) x						
 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE U.S. Citizen 	OF ORGANIZATION						
5 NUMBER OF SHARES	SOLE VOTING POWER 0 shares.						
BENEFICIALLY 6 OWNED BY EACH REPORTING PERSON WITH 7	SHARED VOTING POWER 4,598,397 shares, of which 4,113,179 are directly owned 345,722 are directly owned by MDV VII LF, 91,731 are of MDV ENF A and 47,765 are directly owned by MDV EI MDV is the general partner of MDV VII, MDV VII LF, N MDV ENF B, and Ericson and Schoendorf, members of S may be deemed to have shared power to vote these shares SOLE DISPOSITIVE POWER 0 shares. SHARED DISPOSITIVE POWER 4,598,397 shares, of which 4,113,179 are directly owned	directly owned by NF B. Seventh MDV ENF A and Seventh MDV, s.					
	4,398,397 shares, of which 4,113,179 are directly owned 345,722 are directly owned by MDV VII LF, 91,731 are of MDV ENF A and 47,765 are directly owned by MDV EI MDV is the general partner of MDV VII, MDV VII LF, MDV ENF B, and Ericson and Schoendorf, members of S may be deemed to have shared power to dispose of these	directly owned by NF B. Seventh MDV ENF A and Seventh MDV,					
9 AGGREGATE AMOUNT I	•						
10 CHECK BOX IF THE AGO	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES						
11 PERCENT OF CLASS REF	PRESENTED BY AMOUNT IN ROW 9 8.7%						
12 TYPE OF REPORTING PE							

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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, CA94025

ITEM 2(A). NAME OF PERSONS FILING

This Statement is filed by MDV VII, L.P., a Delaware limited partnership ("MDV VII"), MDV VII Leaders' Fund, L.P., a Delaware limited partnership ("MDV ENF VII (A), L.P., a Delaware limited partnership ("MDV ENF VII (B), L.P., a Delaware limited partnership ("MDV ENF B"), Seventh MDV Partners, L.L.C., a Delaware limited liability company ("Seventh MDV"), William W. Ericson ("Ericson"), Nancy J. Schoendorf ("Schoendorf") and Jonathan D. Feiber ("Feiber"). The foregoing entities and individuals are collectively referred to as the "Reporting Persons."

Seventh MDV, the general partner of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, may be deemed to have sole power to vote and sole power to dispose of shares of the issuer directly owned by MDV VII, MDV VII LF, MDV ENF A and MDV ENF B. Ericson, Schoendorf and Feiber are members of Seventh MDV and may be deemed to have shared power to vote and shared power to dispose of shares of the issuer directly owned by MDV VII, MDV VII LF, MDV ENF A and MDV ENF B.

ITEM 2(B). ADDRESS OF PRINCIPAL OFFICE

The address for each of the Reporting Persons is:

Mohr, Davidow Ventures 3000 Sand Hill Road, Building 3, Suite 290 Menlo Park, California94025

ITEM 2(C) CITIZENSHIP

MDV VII, MDV VII LF, MDV ENF A and MDV ENF B are Delaware limited partnerships. Seventh MDV is a Delaware limited liability company. Ericson, Schoendorf and Feiber are United States citizens.

ITEM 2(D) AND (E).

TITLE OF CLASS OF SECURITIES AND CUSIP NUMBER

Common Stock, \$0.001 par value CUSIP # 69404D108

ITEM 3. Not Applicable.

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.

CUSIP NO. 69404D108 13 G Page 11of 15 (a) Amount beneficially owned: See Row 9 of cover page for each Reporting Person. Percent of Class: (b) See Row 11 of cover page for each Reporting Person. (c) Number of shares as to which such person has: (i) Sole power to vote or to direct the vote: See Row 5 of cover page for each Reporting Person. (ii) Shared power to vote or to direct the vote: See Row 6 of cover page for each Reporting Person. (iii) Sole power to dispose or to direct the disposition of: See Row 7 of cover page for each Reporting Person. (iv) Shared power to dispose or to direct the disposition of: See Row 8 of cover page for each Reporting Person. ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS Not applicable.

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

Under certain circumstances set forth in the limited partnership agreements of MDV VII, MDV VII LF, MDV ENF A and MDV ENF B, and the limited liability company agreement of Seventh MDV, the general and limited partners or members, as the case may be, of each of such entities may be deemed to have the right to receive dividends from, or the proceeds from, the sale of shares of the issuer owned by each such entity of which they are a partner or member, as the case may be.

ITEM IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE 7. 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.

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ITEM 10. CERTIFICATIONS

Not applicable.

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SIGNATURES

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: March 29, 2011

MDV VII, L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV VII Leaders' Fund, L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV ENF VII (A), L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV ENF VII (B), L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

Seventh MDV Partners, L.L.C. /s/ Jonathan D. Feiber

Jonathan D. Feiber, Managing Member

Nancy J. Schoendorf /s/ Nancy J. Schoendorf

Jonathan D. Feiber /s/ Jonathan D. Feiber

William W. Ericson /s/ William W. Ericson

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)

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EXHIBIT INDEX

Found on Sequentially Numbered Pag

Exhibit Numbered Page

Exhibit A: Agreement of Joint Filing 15

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EXHIBIT A

Agreement of Joint Filing

The undersigned hereby agree that a single Schedule 13G (or any amendment thereto) relating to the Common Stock of Pacific Biosciences of California, Inc. shall be filed on behalf of each of the undersigned and that this Agreement shall be filed as an exhibit to such Schedule 13G.

Date: March 29, 2011

MDV VII, L.P. /s/Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV VII Leaders' Fund, L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV ENF VII (A), L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

MDV ENF VII (B), L.P. /s/ Jonathan D. Feiber

By Seventh MDV Partners, L.L.C. Jonathan D. Feiber, Managing Member

Its General Partner

Seventh MDV Partners, L.L.C. /s/ Jonathan D. Feiber

Jonathan D. Feiber, Managing Member

Nancy J. Schoendorf /s/ Nancy J. Schoendorf

Jonathan D. Feiber /s/ Jonathan D. Feiber

William W. Ericson /s/William W. Ericson