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)
Checl	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)
	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 absequent amendment containing information which would alter disclosures provided in a prior cover page.
	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 ("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

CUSI	P NO. 69404D108			13 G		Page 2of 1
1	NAME OF REPORT MDV VII, L.P. ("MD	V VII")				
2	CHECK THE APPRO (a) \Box (b)		X IF A MEMBER OF A	GROUP		
3	SEC USE ONLY					
4	CITIZENSHIP OR P Delaware	LACE OF OF	RGANIZATION			
	NUMBER OF SHARES BENEFICIALLY	5	of MDV VII, may l ("Ericson"), Nancy	e deemed to have sol	e power to vote these endorf") and Jonatha	("Seventh MDV"), the general partner shares, and William W. Ericson in D. Feiber ("Feiber"), members of these shares.
	OWNED BY EACH REPORTING	SHARED VOTING See response to rov				
	PERSON WITH		have sole power to	xcept that Seventh MI	s, and Ericson, Scho	er of MDV VII, may be deemed to endorf and Feiber, members of se of these shares.
		8	SHARED DISPOS See response to rov			
9	AGGREGATE AMO	UNT BENEF	ICIALLY OWNED BY E	ACH REPORTING P	ERSON	4,113,179
10	CHECK BOX IF TH	E AGGREGA	TE AMOUNT IN ROW ((9) EXCLUDES CER	ΓAIN SHARES	
11	PERCENT OF CLAS	S REPRESE	NTED BY AMOUNT IN	ROW 9		7.8%

PN

TYPE OF REPORTING PERSON

CUSI	P NO. 69404D108			13 G	Page 3of 1
1	NAME OF REPORT	ING PERSON	NS .		
	MDV VII Leaders' F	und, L.P. ("M	DV VII LF")		
2	CHECK THE APPR	OPRIATE BO	X IF A MEMBER OF A G	ROUP	
	(a) \Box (b)) x			
3	SEC USE ONLY				
4	CITIZENSHIP OR P	LACE OF OF	RGANIZATION		
	Delaware				
		5	SOLE VOTING POV	WER	
			345,722 shares, exce	pt that Seventh MDV, tl	ne general partner of MDV VII LF, may be deemed to
	NUMBER OF		have sole power to v	ote these shares, and Er	cson, Schoendorf and Feiber, members of Seventh
	SHARES		MDV, may be deeme	ed to have shared power	to vote these shares.
	BENEFICIALLY	6	CHARER MOTING	DOLVED	
	OWNED BY EACH	6	SHARED VOTING		
	REPORTING		See response to row		
	PERSON	7	SOLE DISPOSITIVE	E POWER	
	WITH				ne general partner of MDV VII LF, may be deemed to
					nd Ericson, Schoendorf and Feiber, members of
			Seventh MDV, may l	oe deemed to have share	d power to dispose of these shares.
		8	SHARED DISPOSIT	TIVE POWER	
			See response to row	7.	
9	AGGREGATE AMO	UNT BENEF	ICIALLY OWNED BY EA	CH REPORTING PER	SON
					345,722
10	CHECK BOX IF TH	E AGGREGA	TE AMOUNT IN ROW (9) EXCLUDES CERTA	
11	PERCENT OF CLAS	SS REPRESEI	NTED BY AMOUNT IN R	OW 9	

12

TYPE OF REPORTING PERSON

0.7%

PN

CUSI	P NO. 69404D108			13 G		Page 4of 15
			<u> </u>			
1	NAME OF REPORTI	NG PERSON	NS .			
	MDV ENF VII (A), L	.P. ("MDV E	NF A")			
2	CHECK THE APPRO	PRIATE BO	X IF A MEMBER OF A G	ROUP		
	(a)	X				
3	SEC USE ONLY					
4	CITIZENSHIP OR PL	ACE OF OF	RGANIZATION			
	Delaware					
	NUMBER OF SHARES BENEFICIALLY	5	have sole power to vo	that Seventh MDV, the	icson, Schoendorf a	MDV ENF A, may be deemed to nd Feiber, members of Seventh s.
	OWNED BY EACH REPORTING	6	SHARED VOTING See response to row 5			
PERSON 7 WITH		7	have sole power to di	that Seventh MDV, the	nd Ericson, Schoen	MDV ENF A, may be deemed to dorf and Feiber, members of of these shares.
		8	SHARED DISPOSIT See response to row 7			
9	AGGREGATE AMOU	JNT BENEF	ICIALLY OWNED BY EA	CH REPORTING PER	SON	91,731
10	CHECK BOX IF THE	AGGREGA	TE AMOUNT IN ROW (9)	EXCLUDES CERTAI	N SHARES	
11	PERCENT OF CLASS	S REPRESE	NTED BY AMOUNT IN R	OW 9		0.2%
12	TYPE OF REPORTIN	G PERSON				0.2 /0

PN

CUSI	P NO. 69404D108			13 G	Page 5of 15
1 2 3 4	NAME OF REPORT MDV ENF VII (B), I CHECK THE APPRO (a)	L.P. ("MDV E OPRIATE BC) x	NF B") X IF A MEMBER OF A	GROUP	
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH	5 6	have sole power to MDV, may be deen SHARED VOTING	ept that Seventh MDV, the vote these shares, and Erined to have shared power G POWER	general partner of MDV ENF B, may be deemed to cson, Schoendorf and Feiber, members of Seventh to vote these shares.
	REPORTING PERSON WITH	have sole power to	VE POWER ept that Seventh MDV, the dispose of these shares, a	e general partner of MDV ENF B, may be deemed to ad Ericson, Schoendorf and Feiber, members of d power to dispose of these shares.	
		8	SHARED DISPOS See response to rov		
9	AGGREGATE AMO	UNT BENEF	ICIALLY OWNED BY E	ACH REPORTING PER	GON 47,765
10	CHECK BOX IF TH	E AGGREGA	TE AMOUNT IN ROW	(9) EXCLUDES CERTAI	,
11	PERCENT OF CLAS	SS REPRESE	NTED BY AMOUNT IN	ROW 9	0.1%

PN

TYPE OF REPORTING PERSON

CUSII	P NO. 69404D108			13 G	Page 6of 15
1	NAME OF REPORTI		NS		
	Seventh MDV Partner				
2			OX IF A MEMBER OF A G	ROUP (See Instructions	5)
2	(a) \square (b)	X			
3		A CE OF OF	OCANIIZATION		
4	CITIZENSHIP OR PL Delaware	ACE OF OR	RGANIZATION		
	Delaware		COLE MOTING DOL	A/ED	
		Э	SOLE VOTING POV		ectly owned by MDV VII, 345,722 are directly owned
	NUMBER OF				by MDV ENF A and 47,765 are directly owned by
	SHARES				artner of MDV VII, MDV VII LF, MDV ENF A and
	BENEFICIALLY				power to vote these shares, and Ericson, Schoendorf and
	OWNED BY EACH				leemed to have shared power to vote these shares.
	REPORTING	6	SHARED VOTING I		cented to have shared power to vote these shares.
	PERSON	ľ	See response to row 5		
	WITH	7	SOLE DISPOSITIVE		
		ľ			rectly owned by MDV VII, 345,722 are directly owned
					by MDV ENF A and 47,765 are directly owned by
					artner of MDV VII, MDV VII LF, MDV ENF A and
					ower to dispose of these shares, and Ericson,
			Schoendorf and Feibe	er, members of Seventh	MDV, may be deemed to have shared power to dispose
			of these shares.		
		8	SHARED DISPOSIT	TVE POWER	
			See response to row 7		
9	AGGREGATE AMOU	JNT BENEF	ICIALLY OWNED BY EA	CH REPORTING PERS	
					4,598,397
10			TE AMOUNT IN ROW (9))	
<u> </u>	EXCLUDES CERTAI		,		
11	PERCENT OF CLASS	3 REPRESE	NTED BY AMOUNT IN RO	OW (9)	0.70/
					8.7%
12	TYPE OF REPORTIN	G PERSON	(See Instructions)		

CUSII	P NO. 69404D108			13 G				Page 7of 15	
	h on nenones								
1	NAME OF REPORTI								
2	CHECK THE APPRO	PRIATE BO	X IF A MEMBER OF A GF	ROUP	(a)		(b)	X	
3	SEC USE ONLY								
4	CITIZENSHIP OR PL U.S. Citizen	ACE OF OR	GANIZATION						
	NUMBER OF	5	SOLE VOTING POW Oshares.	/ER					
	SHARES	6	SHARED VOTING P						
	BENEFICIALLY		4,598,397 shares, of w by MDV VII LF, 91,7	31 are directly owned	l by MDV ENF A a	nd 47,765	are direct	ly owned by	
	OWNED BY EACH		MDV ENF B. Sevent	deemed to have sole	power to vote these	shares, a	nd Feiber a	and Schoendorf,	
	REPORTING		members of Seventh N	ADV, may be deemed	to have shared pov	ver to vot	e these shai	res.	
	PERSON	7	SOLE DISPOSITIVE 0 shares.	POWER					
	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.						
9	AGGREGATE AMOU	NT BENEF	ICIALLY OWNED BY EAC	CH REPORTING PE	RSON		4,598	397	
10	CHECK BOX IF THE	AGGREGA	TE AMOUNT IN ROW (9)	EXCLUDES CERTA	IN SHARES		7,000	,557	
10	GILLOIT BOX II THE	ricondori	ilimooni innon (s)	LIGEOBES CERT					
11	PERCENT OF CLASS	REPRESE	NTED BY AMOUNT IN RO	OW 9			8.7%		
12	TYPE OF REPORTIN	G PERSON					IN		
·									

CUSIP	NO. 69404D108			13 G				Page 8of 1	
	NAME OF REPORT	TING DEDSON	IS Nancy J. Schoendorf	•					
· ·			X IF A MEMBER OF A C						
2	CHECK THE APPR	OPRIALE BO.	A IF A MEMBER OF A C	3KOUP	(a)		(b)	X	
3	SEC USE ONLY								
4	CITIZENSHIP OR I	PLACE OF OR	GANIZATION						
	U.S. Citizen	•							
	NUMBER OF	5	SOLE VOTING PO 0 shares.	WER					
	SHARES	6	SHARED VOTING	POWER which 4,113,179 are dire	otly, overand by MI	N/ N/II 2	14E 722 a	we divestly or med	
	BENEFICIALLY		by MDV VII LF, 91	,731 are directly owned b	y MDV ENF A aı	nd 47,765	are dire	ctly owned by	
	OWNED BY EACH		MDV ENF B, may b	nth MDV is the general pose deemed to have sole po	ower to vote these	shares, a	nd Ericso	on and Feiber,	
	REPORTING		members of Seventh MDV, may be deemed to have shared power to vote these shares.						
	PERSON	7							
	WITH	8	by MDV VII LF, 91 MDV ENF B. Seve	which 4,113,179 are dire ,731 are directly owned b nth MDV is the general p ricson and Feiber, membe	y MDV ENF A an artner of MDV V	nd 47,765 II, MDV	are dire VII LF, I	ctly owned by MDV ENF A and	
9	AGGREGATE AMO	DUNT BENEFI	ICIALLY OWNED BY EA	ACH REPORTING PERS	SON		4.59	98,397	
10	CHECK BOX IF TH	IE AGGREGA	TE AMOUNT IN ROW (9) EXCLUDES CERTAIN	N SHARES		.,50		
			`	•]	
11	PERCENT OF CLA	SS REPRESEN	NTED BY AMOUNT IN F	ROW 9			8.79	%	
12	TYPE OF REPORTI	NG PERSON					IN		

CUSIP NO. 69	9404D108			13 G					Page 9of 15
1 2 3 4	NAME OF REPORTICE CHECK THE APPROVED SEC USE ONLY CITIZENSHIP OR PL U.S. Citizen	PRIATE BOX I		GROUP		(a)		(b)	x
	NUMBER OF SHARES	5	SOLE VOTING PO 0 shares.	WER					
OV	ENEFICIALLY VNED BY EACH REPORTING PERSON WITH	7 8	by MDV VII LF, 91 MDV ENF B. Seve MDV ENF B, and F shared power to vot SOLE DISPOSITIV 0 shares. SHARED DISPOSI 4,598,397 shares, of by MDV VII LF, 91 MDV ENF B. Seve	which 4,113,179 are di,731 are directly owned and Schoendorf e these shares. TIVE POWER which 4,113,179 are di,731 are directly owned and Schoendorf et these shares.	d by MDV I al partner of f, members of directly owned d by MDV I al partner of	ENF A at MDV V of Sevented by MI ENF A at MDV V	nd 47,765 II, MDV th MDV, DV VII, 3 nd 47,765 II, MDV	5 are dire VII LF, M may be de 345,722 at 5 are dire VII LF, M	ctly owned by MDV ENF A and eemed to have re directly owned ctly owned by MDV ENF A and
9	AGGREGATE AMOU	JNT BENEFICI	ALLY OWNED BY E.	ACH REPORTING PE	RSON			<i>1</i> 50	08,397
10	CHECK BOX IF THE	AGGREGATE	AMOUNT IN ROW (9) EXCLUDES CERTA	AIN SHARI	ES		4,53	,
11	PERCENT OF CLASS	S REPRESENTI	D BY AMOUNT IN	ROW 9				8.7%	6

IN

TYPE OF REPORTING PERSON

12

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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 A"), MDV ENF VII (B), L.P., a Delaware limited partnership ("MDV ENF A"), 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) <u>CITIZENSHIP</u>

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.

(a) <u>Amount beneficially owned</u>:

See Row 9 of cover page for each Reporting Person.

(b) <u>Percent of Class</u>:

See Row 11 of cover page for each Reporting Person.

- (c) <u>Number of shares as to which such person has:</u>
 - (i) <u>Sole power to vote or to direct the vote</u>:

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 7. <u>IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY</u>

Not applicable.

ITEM 8. <u>IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP.</u>

Not applicable.

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

Not applicable.

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ITEM 10.	<u>CERTIFICATIONS</u>		
	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)

<u>EXHIBIT</u>	<u> TINDEX</u>
	Found on Sequentially
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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.

MDV VII, L.P.

By Seventh MDV Partners, L.L.C.
Its General Partner

MDV VII Leaders' Fund, L.P.

By Seventh MDV Partners, L.L.C.

Is General Partner

/s/ Jonathan D. Feiber

Jonathan D. Feiber

Jonathan D. Feiber

Jonathan D. Feiber

MDV ENF VII (A), L.P.

By Seventh MDV Partners, L.L.C.

Its General Partner

/s/ Jonathan D. Feiber

Jonathan D. Feiber, Managing Member

MDV ENF VII (B), L.P.

By Seventh MDV Partners, L.L.C.

Its General Partner

/s/ Jonathan D. Feiber

Jonathan D. Feiber, Managing Member

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

Date: March 29, 2011

William W. Ericson /s/William W. Ericson