UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G/A Amendment No. 1

Under the Securities Exchange Act of 1934

Pacific Biosciences of California, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
69404D108
(CUSIP Number)
December 31, 2016
(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 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 1934 (the "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 Note

	NAME OF REPORTING PERSONS						
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Larry N	. Feinberg					
	CHEC	THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)					
2	(a) □						
	(b) \Box						
	SEC US	SE ONLY					
3							
4	CITIZE	NSHIP OR PLACE OF ORGANIZATION					
4	I Inited	States					
	United	SOLE VOTING POWER					
		5					
NUMBER		400,000					
SHARES BENEFICIA		6 SHARED VOTING POWER					
OWNED E		5,116,894					
EACH		7 SOLE DISPOSITIVE POWER					
REPORTIN PERSON		400,000					
WITH:	•	SHARED DISPOSITIVE POWER					
		8 SIMILES SIGNATIVE TOWER					
	A C C D I	5,116,894 EGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
9	AGGK	EGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	5,516,8	94					
	CHEC	A BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)					
10							
11	PERCE	NT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
11	5.95%*						
4.2		OF REPORTING PERSON (See Instructions)					
12							
* Calanl-+	IN	otal of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in its Quarterly Report on					
- Carculated Das	еи оп а І	DIALOL 92.040.702 SHARES OF COMMON STOCK OUISIANOING AS OF OCTODER 51. ZUTD, AS FEDORFOI DV THE ISSUER IN ITS QUARTERIV REDORT ON					

^{*} Calculated based on a total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in its Quarterly Report on Form 10-Q filed with the Securities Exchange Commission (the "SEC") on November 4, 2016 (the "Quarterly Report").

1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Oracle Partners, L.P.						
2	CHECK (a) □ (b) □	THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)					
3	SEC USE ONLY						
4	CITIZENSHIP OR PLACE OF ORGANIZATION						
	Delaware						
NUMBER		5 SOLE VOTING POWER 0					
SHARE BENEFICIA OWNED EACH	ALLY BY	6 SHARED VOTING POWER 429,400					
REPORTI PERSO	ING N	7 SOLE DISPOSITIVE POWER 0					
WITH	:	8 SHARED DISPOSITIVE POWER 429,400					
9	AGGREC	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
J	429,400						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)						
10							
11	PERCEN	T OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	0.46%*						
12		REPORTING PERSON (See Instructions)					
	PN						

^{*} Calculated based on a total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.

1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Oracle Institutional Partners, L.P.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) □ (b) □				
3	SEC USE	ONLY			
4	CITIZEN: Delaware	SHIP OR PLACE OF ORGANIZATION			
NUMBER		5 SOLE VOTING POWER 0			
SHARE BENEFICL OWNED EACH	ALLY BY	6 SHARED VOTING POWER 429,400			
REPORT: PERSO WITH	ING N	SOLE DISPOSITIVE POWER 0			
***************************************		8 SHARED DISPOSITIVE POWER 429,400			
9	AGGREG 429,400	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
10	СНЕСК Е	BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)			
11	PERCEN' 0.46%*	Γ OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	TYPE OF PN	REPORTING PERSON (See Instructions)			
* C.1. 111	-,	1 (02 (46 752)			

^{*} Calculated based on a total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.

	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Oracle Ten Fund Master, LP						
2	CHECI	HECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)					
(6	(a) □ (b) □						
³ s	SEC USE ONLY						
4	CITIZE	ENSH	IP OR PLACE OF ORGANIZATION				
Γ	Delawa	are					
		5	SOLE VOTING POWER				
NUMBER	_		0				
SHARES BENEFICIA		6	SHARED VOTING POWER				
OWNED I	BY		686,052				
EACH REPORTII		7	SOLE DISPOSITIVE POWER				
PERSON WITH:							
WIIT:		8	SHARED DISPOSITIVE POWER				
	1000		686,052				
9	9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	86,05						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)						
-							
P	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
11).74%*						
			EPORTING PERSON (See Instructions)				
	PN						
		on a t	total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.				

			REPORTING PERSONS TIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Oracle Investment Management Employees Retirement Fund				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) □ (b) □				
3	SEC USE ONLY				
4	CITIZI	ENSF	HIP OR PLACE OF ORGANIZATION		
4					
	Conne	cticut			
NUMBEI	R OF	5	SOLE VOTING POWER 0		
SHARI BENEFICI OWNED	ALLY	6	SHARED VOTING POWER 130,000		
EACH REPORT PERSO	ING	7	SOLE DISPOSITIVE POWER 0		
WITH:		8	SHARED DISPOSITIVE POWER 130,000		
9	AGGR	EGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	130,00	0			
10		K BC	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)		
11	PERCI 0.14% [;]		OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
			EPORTING PERSON (See Instructions)		
	00				
* Calculated	d based	on a	total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.		

1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
	The	The Feinberg Family Foundation				
2	(a)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) □ (b) □				
3	SEC	C USE ONLY				
4		TIZENSHIP OR PLACE OF ORGANIZATION nnecticut				
NUMBER () DF	5 SOLE VOTING POWER 0				
SHARES BENEFICIAI OWNED B EACH	LLY	6 SHARED VOTING POWER 25,500				
REPORTIN PERSON WITH:		7 SOLE DISPOSITIVE POWER 0				
		8 SHARED DISPOSITIVE POWER 25,500				
9	AGGR 25,500	EGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
10		K BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)				
11	PERCE 0.03%*	ENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
12	TYPE (OF REPORTING PERSON (See Instructions)				
* Calculated bace	d on a t	restal of 02.646.752 charge of common stock outstanding as of October 21. 2016, as reported by the Issuer in the Quarterly Person				

Calculated based on a total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.

		ORTING PERSONS					
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Oracle Associate	Oracle Associates, LLC					
		PPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)					
2							
	(a) □ (b) □						
3	SEC USE ONLY						
4	CITIZENSHIP (OR PLACE OF ORGANIZATION					
	Delaware						
		5 SOLE VOTING POWER					
NUMB SHA		SHARED VOTING POWER					
BENEFI		6 STRIKED VOTING TOWER					
OWNE		4,961,394					
EA0 REPOF	_	SOLE DISPOSITIVE POWER					
PERS	SON	0					
WIT	ГН:	8 SHARED DISPOSITIVE POWER					
		4,961,394					
	AGGREGATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
9							
	4,961,394						
10	CHECK BOX II	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)					
10							
11	PERCENT OF (CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.36%*						
		ORTING PERSON (See Instructions)					
12							
	PN						

^{*} Calculated based on a total of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.

		AME OF REPORTING PERSONS					
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)						
	Oracle Investment Management, Inc.						
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)						
2							
	(a) 🗆						
	(b) 🗆						
3	SEC US	SE ONI	X				
4	CITIZE	NSHIP	OR PLACE OF ORGANIZATION				
-	United	ited States					
	Officed		SOLE VOTING POWER				
		5	SOLE VOTING TOWER				
NUMBE	R OF		0				
SHAR	_	6	SHARED VOTING POWER				
BENEFIC			010.073				
OWNED EAC			816,052 SOLE DISPOSITIVE POWER				
REPORT		7	SOLE DISTOSITIVE TOWER				
PERSO	_		0				
WITH: 8 SHARED DISPOSITIVE POWER		SHARED DISPOSITIVE POWER					
			816,052				
	AGGRI	FGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
9	10010		THIS COULD BE VEHICLE OWNED BY ENGINEER CHANGE PERCON				
	816,052	2					
	CHEC	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)					
10							
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
11							
	0.88%* TVPF (PORTING PERSON (See Instructions)				
12	1111	JI KLE	OKTINO I BROOM (OCC IIIBUUCIOIIS)				
	CO						
* Calculated	d based	on a to	tal of 92,646,752 shares of common stock outstanding as of October 31, 2016, as reported by the Issuer in the Quarterly Report.				

This Amendment No. 1 to the Schedule 13G (this "Amendment No. 1") is being filed with respect to the Common Stock, par value \$.001 ("Common Stock") of Pacific Biosciences of California, Inc., a Delaware corporation (the "Issuer"), amends and supplements the Schedule 13G originally filed with the United States Securities and Exchange Commission (the "SEC") on September 15, 2016. This Amendment No. 1 is being filed on behalf of Oracle Partners, LP, a Delaware limited partnership ("Oracle Partners"), Oracle Ten Fund Master, LP, a Cayman Islands exempted company ("Oracle Ten Fund"), Oracle Institutional Partners, LP, a Delaware limited partnership ("Institutional Partners") and, collectively with Oracle Partners and Oracle Ten Fund, the "Oracle Entities"), Oracle Investment Management, Inc. Employees' Retirement Plan, an employee benefit plan organized in Connecticut (the "Retirement Plan"), Oracle Associates, LLC, a Delaware limited liability company and the general partner of Oracle Partners, Oracle Ten Fund and Institutional Partners ("Oracle Associates"), Oracle Investment Management, Inc., a Delaware corporation and the investment manager to Oracle Ten Fund and the Retirement Plan (the "Investment Manager"), The Feinberg Family Foundation, a foundation organized in Connecticut (the "Foundation"), and Larry N. Feinberg, the managing member of Oracle Associates, the sole shareholder, director and president of the Investment Manager and the trustee of the Foundation (each of the foregoing, a "Reporting Person") and collectively, the "Reporting Persons"). Capitalized terms used but not defined herein have the meaning ascribed thereto in the Schedule 13G.

Item 4. Ownership:

Item 4 of the Schedule 13G is hereby amended and restated as follows:

A. Larry N. Feinberg

- (a) Amount beneficially owned: 5,516,894
- (b) Percent of class: 5.95%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 400,000
 - (ii) Shared power to vote or direct the vote: 5,116,894
 - (iii) Sole power to dispose or direct the disposition: 400,000
 - (iv) Shared power to dispose or direct the disposition: 5,116,894

B. Oracle Partners

- (a) Amount beneficially owned: 3,845,942
- (b) Percent of class: 4.15%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 3,845,942
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 3,845,942

C. Institutional Partners

- (a) Amount beneficially owned: 429,400
- (b) Percent of class: 0.46%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 429,400
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 429,400

D. Oracle Ten Fund

- (a) Amount beneficially owned: 686,052
- (b) Percent of class: 0.74%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 686,052
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 686,052

E. Retirement Plan

- (a) Amount beneficially owned: 130,000
- (b) Percent of class: 0.14%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 130,000
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 130,000

F. Foundation

- (a) Amount beneficially owned: 25,500
- (b) Percent of class: 0.03%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 25,500
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 25,500

G. Oracle Associates

- (a) Amount beneficially owned: 4,961,394
- (b) Percent of class: 5.36%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 4,961,394
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 4,961,394

H. Investment Manager

- (a) Amount beneficially owned: 816,052
- (b) Percent of class: 0.88%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or direct the vote: 0
 - (ii) Shared power to vote or direct the vote: 816,052
 - (iii) Sole power to dispose or direct the disposition: 0
 - (iv) Shared power to dispose or direct the disposition: 816,052

SIGNATURE

Dated: February 3, 2017

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.

ORACLE PARTNERS, L.P.
By: ORACLE ASSOCIATES, LLC, its general partner
By: /s/ Larry N. Feinberg Larry N. Feinberg, Managing Member
ORACLE TEN FUND PARTNERS, LP By: ORACLE ASSOCIATES, LLC, its general partner
By: /s/ Larry N. Feinberg Larry N. Feinberg, Managing Member
ORACLE INSTITUTIONAL PARTNERS, LP By: ORACLE ASSOCIATES, LLC, its general partner
By: /s/ Larry N. Feinberg Larry N. Feinberg, Managing Member
ORACLE INVESTMENT MANAGEMENT, INC. EMPLOYEES' RETIREMENT PLAN
By: /s/ Larry N. Feinberg Larry N. Feinberg, Trustee

THE FEINBERG FAMILY FOUNDATION

By: /s/ Larry N. Feinberg
Larry N. Feinberg, Trustee
ORACLE INVESTMENT MANAGEMENT, INC
By: /s/ Larry N. Feinberg
Larry N. Feinberg, President
ORACLE ASSOCIATES, LLC
By: /s/ Larry N. Feinberg
Larry N. Feinberg, Manager Member
/s/ Larry N. Feinberg
Larry N. Feinberg, individually