# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# **SCHEDULE 13G**

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)

September 6, 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 of 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 Notes).

	NAME OF REPORTING PERSONS		
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Larry N. Feinberg		
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)		
2	(a) □ (b) □ □		
3	SEC USE ONLY		
	CITIZENSHIP OR PLACE OF ORGANIZATION		
4	United States		
NUMBER OF	SOLE VOTING POWER		
SHARES	300,000		
BENEFICIALLY	SHARED VOTING POWER		
OWNED BY	4,500,162		
EACH	SOLE DISPOSITIVE POWER		
REPORTING	300,000		
PERSON	SHARED DISPOSITIVE POWER		
WITH:	4,500,162		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,800,162		
	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)		
10			
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11			
	5.22%* TYPE OF REPORTING PERSON (See Instructions)		
12			
	IN state of 01 975 295 shares of common stock outstanding as of July 21, 2016, as reported by the Issuer in its Quarterly Beport on Form		

\* Calculated based on a total of 91,875,385 shares of common stock outstanding as of July 31, 2016, as reported by the Issuer in its Quarterly Report on Form 10-Q filed with the Securities Exchange Commission (the "<u>SEC</u>") on August 4, 2016 (the "<u>Quarterly Report</u>").

	NAME OF REPORTING PERSONS			
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	Oracle Partners, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			
2				
	(a) □ (b) □			
3	SEC USE ONLY			
	CITIZENSHIP OR PLACE OF ORGANIZATION			
4	Delaware			
NUMBER OF	SOLE VOTING POWER			
SHARES	5 0			
BENEFICIALLY	SHARED VOTING POWER			
OWNED BY	3,144,738			
EACH	SOLE DISPOSITIVE POWER			
REPORTING	0			
PERSON	SHARED DISPOSITIVE POWER			
WITH:	3,144,738			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
-	3,144,738			
	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES			
10	CERTAIN SHARES (See Instructions)			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	3.42%*			
12	TYPE OF REPORTING PERSON (See Instructions)			
	PN otal of 91,875,385 shares of common stock outstanding as of July 31, 2016, as reported by the Issuer in the			

	AME OF DEDODTING DEL	DCONC	
1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
1			
	Oracle Institutional Partners, L.P.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)		
2	a) 🗌		
	a) □ b) □		
3			
5	SEC USE ONLY		
	CITIZENSHIP OR PLACE O	)F ORGANIZATION	
4			
	Delaware		
NUMBER OF	SOLE VOTIN	G POWER	
SHARES	0		
BENEFICIALLY	SHARED VOT 6	IING POWER	
OWNED BY	539,100		
O WILLD DI		SITIVE POWER	
EACH	7	SITIVE POWER	
REPORTING	0		
ILLI OKTING	SHARED DISI	POSITIVE POWER	
PERSON	8	105111vE 10wEk	
WITH:	539,100		
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9			
	539,100		
	CHECK BOX IF THE AGGR	REGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)	
10			
11	PERCENT OF CLASS REPR	RESENTED BY AMOUNT IN ROW (9)	
11			
	).59%*		
12	TYPE OF REPORTING PER	SOIN (See Instructions)	
	PN		
		ammon stack outstanding as of July 21, 2016, as reported by the Jacuar in the Quarterly Depart	

	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
1	1.IX.0. IDEI			
		Fund Master, LP		
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			
2	(a) 🗆			
	(a) □ (b) □			
3	SEC USE C	DNLY		
	OFFICIENCE			
4	CITIZENSI	HIP OR PLACE OF ORGANIZATION		
-	Connecticut			
NUMBER OF		SOLE VOTING POWER		
SHARES	5			
SHAKES		0		
BENEFICIALLY	6	SHARED VOTING POWER		
OWNED BY	0	660,824		
OWNEDBY				
EACH	7	SOLE DISPOSITIVE POWER		
REPORTING		0		
KEPOKIING		SHARED DISPOSITIVE POWER		
PERSON	8	SHARED DISPOSITIVE POWER		
WITH:		660,824		
WIIT:	AGGREGA	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AUGREDATE AMOUNT DENEMCIALET OWNED DT EACH KEI OKTING LEKSON			
	660,824			
	CHECK BC	DX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)		
10				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11				
12	TYPE OF REPORTING PERSON (See Instructions)			
	PN			

5

\_\_\_\_\_

	NAME OF REPORTING PERSONS			
1	I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	Oracle Investment Management Employees Retirement Fund			
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			
2	(a) 🗆			
	(b) □			
3	SEC USE ONLY			
5	SEC USE UNEI			
	CITIZENSHIP OR PLACE OF ORGANIZATION			
4	Connecticut			
NUMBER OF	SOLE VOTING POWER			
SHARES	5			
SHARES				
BENEFICIALLY	SHARED VOTING POWER 6			
OWNED BY	130,000			
EACH	SOLE DISPOSITIVE POWER			
	7			
REPORTING				
PERSON	SHARED DISPOSITIVE POWER			
MAZITTI I.	130,000			
WITH:	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
9				
	130,000			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)			
10				
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	0.14%*			
12	TYPE OF REPORTING PERSON (See Instructions)			
	00			
	total of 01 075 205 shares of common stock outstanding as of July 21 2016, as reported by the Jacuar in the Outstanky Depart			

r	NTAN (T)					
1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)					
Ţ						
	The Feinberg Family Foundation					
	CHECK	THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)			
2						
	(a) □□ (b) □□					
3	SEC US	E ONLY				
4	CITIZEI	NSHIP OR P	LACE OF ORGANIZATION			
	Connecti	cut				
NUMBER			SOLE VOTING POWER			
CIIADD	c	5				
SHARE	5		0			
BENEFICIA	ALLY	6	SHARED VOTING POWER			
OWNED	DV	0	25,500			
OWNED	ВҮ					
EACH		7	SOLE DISPOSITIVE POWER			
DEDOPT	NC	,	0			
REPORTI	ING					
PERSO	N	8	SHARED DISPOSITIVE POWER			
X . 71000 X		0	25,500			
WITH						
9	AGGRE	GGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	25,500	5,500				
	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)		NT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)			
	0.03%					
12 TYPE OF REPORTING PERSON (See Instructions)		ING PERSOIN (See Instructions)				
	00	0				

-	
/	

	NIANT				
1	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
T	1 I.A.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)				
	Oracle Associates, LLC				
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)				
2		HECK THE ALTROPRIATE DOA IN A WEWDER OF A GROOT (SEE INSTRUCTIONS)			
	(a) 🗆				
	(b) □[				
3	SEC US	E ONLY			
4	CITIZE	NSHIP OR P	PLACE OF ORGANIZATION		
	Delawar	e			
NUMBEF	R OF		SOLE VOTING POWER		
		5			
SHARE	ES		0		
BENEFICL	ΔΙΙΥ		SHARED VOTING POWER		
DENERICI	ALLI	6			
OWNED	BY		3,683,838		
	ŀ		SOLE DISPOSITIVE POWER		
EACH	ł	7			
REPORT	INC		0		
REPORT	ING				
PERSO	DN	8	SHARED DISPOSITIVE POWER		
		0	3,683,838		
WITH					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
		,683,838			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) ?				
11 PERCH		ERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11					
	4.01%*				
12	TYPE C	TYPE OF REPORTING PERSON (See Instructions)			
	PN	DN			
L	rin				

	NAME 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 USE ONLY			
5	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
-	United States			
NUMBER OF	SOLE VOTING POWER			
	5			
SHARES	0			
BENEFICIALLY	SHARED VOTING POWER			
DEREFICIALET	6			
OWNED BY	790,824			
EACH	SOLE DISPOSITIVE POWER			
	7			
REPORTING	0			
PERSON	SHARED DISPOSITIVE POWER			
TERSON	8 790,824			
WITH:				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	790,824			
	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions)			
10				
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11	FERCENT OF CLASS REPRESENTED DI ANIOUNT IN ROW (9)			
	0.86%*			
12	TYPE OF REPORTING PERSON (See Instructions)			
12				
	CO			

9

#### Item 1(a). Name of Issuer:

Pacific Biosciences of California, Inc., a Delaware corporation (the "Issuer").

## Item 1(b). Address of Issuer's Principal Executive Offices:

1380 Willow Road, Menlo Park, CA 9402528

# Item 2(a). Name of Person(s) Filing:

This statement is filed by:

- (i) Oracle Partners, L.P., a Delaware limited partnership ("<u>Partners</u>"), with respect to the shares of the Issuer's common stock, par value \$0.001 per share ("<u>Shares</u>"), directly owned by it;
- (ii) Oracle Institutional Partners, L.P., a Delaware limited partnership ("Institutional Partners"), with respect to the Shares directly owned by it;
- (iii) Oracle Ten Fund Master, LP, a Delaware limited partnership ("<u>Ten Fund</u>" and, together with Partners and Institutional Partners, the "<u>Oracle Partnerships</u>"), with respect to the Shares directly owned by it;
- (iv) Oracle Investment Management, Inc. Employees' Retirement Plan, an employee benefit plan organized in Connecticut (the "<u>Retirement</u> <u>Plan</u>"), with respect to the Shares directly owned by it;
- (v) The Feinberg Family Foundation, a foundation organized in Connecticut (the "Foundation"), with respect to the Shares directly owned by it;
- (vi) Oracle Associates, LLC, a Delaware limited liability company ("<u>Oracle Associates</u>"), which serves as the general partner of the Oracle Partnerships, and may be deemed to indirectly own, by virtue of the foregoing relationship, the Shares directly owned by the Oracle Partnerships;
- (vii) Oracle Investment Management, Inc., a Delaware corporation (the "<u>Investment Manager</u>"), which serves as the investment manager of Ten Fund and the Retirement Plan, and may be deemed to indirectly own the Shares directly owned by each of Ten Fund and the Retirement Plan; and
- (viii) Mr. Larry N. Feinberg ("<u>Mr. Feinberg</u>"), who serves as the managing member of Oracle Associates, as the sole shareholder, director and president of the Investment Manager and as a trustee of the Foundation, and may be deemed to indirectly own, by virtue of the foregoing relationships, the Shares directly owned by the Oracle Partnerships, the Retirement Plan and the Foundation, in addition to the Shares he owns directly.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons." Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

# Item 2(b). Address of Principal Business Office or, if none, Residence:

The address of the principal business office of the Reporting Persons is 200 Greenwich Avenue, 3rd Floor, Greenwich, Connecticut 06830.

# Item 2(c). Citizenship:

Mr. Feinberg is a citizen of the United States of America. See Item 2(a) for the place of organization of the other Reporting Persons.

# Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001

#### Item 2(e). CUSIP Number:

69404D108

#### Item 3. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

- (a) [\_] Broker or dealer registered under Section 15 of the Act.
- (b) [\_] Bank as defined in section 3(a)(6) of the Act.
- (c) [\_] Insurance company as defined in section 3(a)(19) of the Act.
- (d) [\_] Investment company registered under section 8 of the Investment Company Act of 1940.
- (e) [\_] An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) [\_] An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
- (g) [\_] A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
- (h) [\_] A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
- (i) [\_] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940.
  - [\_] A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J).
- (j)
- [\_] Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). (k)

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution: \_\_\_\_\_

#### Item 4. Ownership:

- A. Larry N. Feinberg
  - (a) Amount beneficially owned: 4,800,162
  - (b) Percent of class: 5.22%
  - (c) Number of shares as to which such person has:
    - (i) Sole power to vote or direct the vote: 300,000
    - (ii) Shared power to vote or direct the vote: 4,500,162
    - (iii) Sole power to dispose or direct the disposition: 300,000
    - (iv) Shared power to dispose or direct the disposition: 4,500,162

#### B. Oracle Partners, L.P.

- (a) Amount beneficially owned: 3,144,738
- (b) Percent of class: 3.42%
- (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: 3,144,738
    - (iii) Sole power to dispose or direct the disposition: 0
    - (iv) Shared power to dispose or direct the disposition: 3,144,738

# C. Oracle Institutional Partners, L.P.

- (a) Amount beneficially owned: 539,100
- (b) Percent of class: 0.59%
- (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: 539,100
    - (iii) Sole power to dispose or direct the disposition: 0
    - (iv) Shared power to dispose or direct the disposition: 539,100
- D. Oracle Ten Fund Master, LP
  - (a) Amount beneficially owned: 660,824
  - (b) Percent of class: 0.72%
  - (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: 660,824
    - (iii) Sole power to dispose or direct the disposition: 0(iv) Shared power to dispose or direct the disposition: 660,824
- E. Oracle Investment Management, Inc. Employees' 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: 0 (iv) Shared power to dispose or direct the disposition: 130,000
  - \_\_\_\_\_
- F. <u>The Feinberg Family Foundation</u> (a) Amount beneficially owned: 25,500
  - Allount Deneficially OWNEC
  - (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, LLC
  - (a) Amount beneficially owned: 3,683,838
  - (b) Percent of class: 4.01%
  - (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: 3,683,838
    - (iii) Sole power to dispose or direct the disposition: 0
    - (iv) Shared power to dispose or direct the disposition: 3,683,838
- H. Oracle Investment Management, Inc.
  - (a) Amount beneficially owned: 790,824
  - (b) Percent of class: 0.86%
  - (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: 790,824
    - (iii) Sole power to dispose or direct the disposition: 0
    - (iv) Shared power to dispose or direct the disposition: 790,824

#### Item 5. Ownership of Five 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  $\Box$ .

# Item 6. Ownership of More than Five 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 Group:

Not applicable.

# Item 10. Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

#### 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: September 15, 2016

ORACLE PARTNERS, L.P.

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

# ORACLE TEN FUND PARTNERS, LP

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

#### ORACLE INSTITUTIONAL PARTNERS, LP

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

ORACLE INVESTMENT MANAGEMENT, INC. EMPLOYEES' RETIREMENT PLAN

By: <u>/s/ Aileen Wiate</u> Aileen Wiate, Trustee

# THE FEINBERG FAMILY FOUNDATION

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Trustee

ORACLE INVESTMENT MANAGEMENT, INC.

By: <u>/s/ Larry N. Feinberg</u>

Larry N. Feinberg, President

ORACLE ASSOCIATES, LLC

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Manager Member

<u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, individually

# Exhibit Index

Joint Filing Agreement, dated September 15, 2016, by and among, Larry N. Feinberg, Oracle Partners, L.P., Oracle Ten Fund Partners LP, Oracle Institutional Partners, L.P., Oracle Investment Management, Inc. Employees' Retirement Plan, The Feinberg Family Foundation, Oracle Associates, LLC and Oracle Investment Management, Inc.

#### Exhibit 99.1

# SCHEDULE 13G JOINT FILING AGREEMENT

The undersigned hereby agree that this Schedule 13G (as may be amended from time to time, the "<u>Schedule 13G</u>") with respect to the common stock, par value \$0.001 per share, of Pacific Biosciences of California, Inc. is, and any amendment thereto signed by each of the undersigned shall be, filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, and that all amendments to the Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing agreements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning it contained therein, but shall not be responsible for the completeness and accuracy of the information concerning the other, except to the extent that it knows or has reason to believe that such information is inaccurate.

Dated: September 15, 2016

ORACLE PARTNERS, L.P.

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

#### ORACLE TEN FUND PARTNERS, LP

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

## ORACLE INSTITUTIONAL PARTNERS, LP

By: ORACLE ASSOCIATES, LLC, its general partner

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Managing Member

# ORACLE INVESTMENT MANAGEMENT, INC. EMPLOYEES' RETIREMENT PLAN

By: <u>/s/ Aileen Wiate</u> Aileen Wiate, Trustee

THE FEINBERG FAMILY FOUNDATION

By: <u>/s/ Larry N. Feinberg</u>

Larry N. Feinberg, Trustee

ORACLE INVESTMENT MANAGEMENT, INC.

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, President

ORACLE ASSOCIATES, LLC

By: <u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, Manager Member

<u>/s/ Larry N. Feinberg</u> Larry N. Feinberg, individually