

Kindred Biosciences, Inc.  
Form SC 13G  
December 20, 2013

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

SCHEDULE 13G  
(Rule 13d-102)

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

(Amendment No. )1

Kindred Biosciences, Inc.  
(Name of Issuer)

Common stock, par value \$0.0001 per share  
(Title of Class of Securities)

494577109  
(CUSIP Number)

December 12, 2013  
(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)

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1 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. 494577109

1 NAME OF REPORTING PERSON

EcoR1 Capital Fund, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

5

SOLE VOTING POWER

0 shares

6

SHARED VOTING POWER

873,187

7

SOLE DISPOSITIVE POWER

0 shares

8

SHARED DISPOSITIVE POWER

873,187

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

873,187

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.4%

12 TYPE OF REPORTING PERSON

PN

CUSIP NO. 494577109

1 NAME OF REPORTING PERSON

EcoR1 Capital, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		873,187
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER
		873,187

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

873,187

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.4%

12 TYPE OF REPORTING PERSON

OO

CUSIP NO. 494577109

1 NAME OF REPORTING PERSON

Oleg Nodelman

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

United States

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
	6	50,000 SHARED VOTING POWER
	7	873,187 SOLE DISPOSITIVE POWER
	8	50,000 SHARED DISPOSITIVE POWER

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

873,187

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.7%

12 TYPE OF REPORTING PERSON

IN

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Item 1(a). Name of Issuer:

Kindred Biosciences, Inc., a Delaware corporation (the "Issuer").

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

1499 Bayshore Highway, Suite 226  
Burlingame, California 94010

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

EcoR1 Capital Fund, L.P. ("Capital Fund")  
409 Illinois Street  
San Francisco, California 94158  
Citizenship: Delaware

EcoR1 Capital, LLC ("EcoR1")  
409 Illinois Street  
San Francisco, California 94158  
Citizenship: Delaware

Oleg Nodelman  
409 Illinois Street  
San Francisco, California 94158  
Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

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

Common stock, par value \$0.0001 per share (the "Common Stock")

Item 2(e). CUSIP Number:

494577109

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

/x/ Not applicable.

(a) // Broker or dealer registered under Section 15 of the Exchange Act.

(b) // Bank as defined in Section 3(a)(6) of the Exchange Act.

(c) // Insurance company as defined in Section 3(a)(19) of the Exchange Act.

(d) // Investment company registered under Section 8 of the Investment Company Act.

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- (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.
- (i) // A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.
- (j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
- (k) // Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution: \_\_\_\_\_

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on the date hereof, Capital Fund directly owned 873,187 shares of Common Stock. EcoR1, as the general partner of Capital Fund, may be deemed to beneficially own the 873,187 shares of Common Stock directly owned by Capital Fund. Mr. Nodelman owns 50,000 shares of Common Stock directly, and as the Manager of EcoR1, may be deemed to beneficially own the 873,187 shares of Common Stock directly owned by Capital Fund.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any shares of Common Stock owned by another Reporting Person. Each of EcoR1 and Mr. Nodelman disclaims beneficial ownership of the shares of Common Stock directly owned by Capital Fund and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 16,172,881 shares of Common Stock outstanding as of December 17, 2013 based on information provided by the Issuer.

As of the close of business on the date hereof, Capital Fund directly owned approximately 5.4% of the outstanding shares of Common Stock, EcoR1 may be deemed to beneficially own approximately 5.4% of the outstanding shares of Common Stock and Mr. Nodelman may be deemed to beneficially own approximately 5.7% of the outstanding shares of Common Stock.

(c) Number of shares as to which such person has:

(i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.



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(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

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.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary That 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.

See Exhibit 99.1.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its 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.

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SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: December 20, 2013

EcoR1 Capital Fund, L.P.

By: EcoR1 Capital, LLC  
General Partner

By: /s/ Oleg Nodelman  
Name: Oleg Nodelman  
Title: Manager

EcoR1 Capital, LLC

By: /s/ Oleg Nodelman  
Name: Oleg Nodelman  
Title: Manager

/s/ Oleg Nodelman  
Oleg Nodelman

