

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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Estimated average burden
hours per response: 0.5Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934
or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Sundlof Stephen</u> (Last) (First) (Middle) <u>C/O KINDRED BIOSCIENCES, INC.</u> <u>1499 BAYSHORE HIGHWAY, SUITE 226</u> (Street) <u>BURLINGAME CA</u> <u>94010</u> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>12/11/2013</u>	3. Issuer Name and Ticker or Trading Symbol <u>Kindred Biosciences, Inc. [KIN]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Senior Vice President</u>	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Table II - Derivative Securities Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Stock Option (right to buy) ⁽¹⁾	(2)	08/29/2023	Common Stock	50,000	1.37	D	
Stock Option (right to buy) ⁽¹⁾	(3)	11/09/2023	Common Stock	50,000	3.83	D	

Explanation of Responses:

- Granted pursuant to the Issuer's 2012 Equity Incentive Plan
- 12,500 of the shares subject to the option will vest on August 26, 2014, with the remaining shares vesting in equal monthly installments over the ensuing 36 months, subject to the Reporting Person's continued employment with the Issuer through the applicable vesting dates.
- 12,500 of the shares subject to the option will vest on November 9, 2014, with the remaining shares vesting in equal monthly installments over the ensuing 36 months, subject to the Reporting Person's continued employment with the Issuer through the applicable vesting dates.

/s/ Stephen Sundlof12/11/2013

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.