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| OMB APPROVAL | |
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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|--|---|---|
| 1. Name and Address of Reporting Person* <u>Zhan Hangjun</u> (Last) (First) (Middle) C/O KINDRED BIOSCIENCES, INC. 1555 BAYSHORE HIGHWAY, SUITE 200 (Street) BURLINGAME CA 94010 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Kindred Biosciences, Inc. [KIN]</u> | 5. 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>Chief Scientific Officer</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>01/22/2019</u> | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|---------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 01/22/2019 | | M | | 6,250 | A | (1) | 39,397 ⁽²⁾ | D | |
| Common Stock | 01/22/2019 | | F | | 2,305 ⁽³⁾ | D | \$10.12 | 37,092 | D | |
| Common Stock | 01/23/2019 | | F | | 2,132 ⁽³⁾ | D | \$9.945 | 34,960 | D | |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-------|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Restricted Stock Units | (1) | 01/22/2019 | | M | | | 6,250 | (4) | (4) | Common Stock | 6,250 | \$0 | 18,750 | D | |

Explanation of Responses:

1. Restricted stock units convert into common stock on a one-for-one basis.
2. Includes 2,000 shares acquired under the Kindred Biosciences, Inc. 2014 Employee Stock Purchase Plan (the "ESPP") on May 31, 2018 and 2,000 shares acquired under the ESPP on November 30, 2018.
3. These shares are being surrendered to satisfy a tax withholding obligation of the reporting person.
4. On January 22, 2018, the reporting person was granted 25,000 restricted stock units, vesting in four equal annual installments beginning on the first anniversary of the grant date.

/s/ Hangjun Zhan 01/24/2019

** 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 4 (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.