

WENTWORTH KORY JAMES  
 Form 3  
 December 20, 2017

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

|   |         |          |  |  |   |  |
|---|---------|----------|--|--|---|--|
| 1. Name and Address of Reporting Person * |         |          | 2. Date of Event Requiring Statement   |  | 3. Issuer Name and Ticker or Trading Symbol   |  |
| WENTWORTH KORY JAMES                      |         |          | 12/18/2017   |  | bluebird bio, Inc. [BLUE]   |  |
| (Last)                                    | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer   |  |   | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| C/O BLUEBIRD BIO, INC., 60 BINNEY STREET  |         |          | (Check all applicable)   |  |   |  |
| (Street)                                  |         |          | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br><input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below) (specify below) |  | 6. Individual or Joint/Group Filing(Check Applicable Line)  |  |
| CAMBRIDGE, MA 02142                       |         |          | Principal Accounting Officer   |  | <input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |  |
| (City)                                    | (State) | (Zip)    |  |  |   |  |

**Table I - Non-Derivative Securities Beneficially Owned**

|                                    |  |   |  |
|------------------------------------|--|---|--|
| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|------------------------------------|--|---|--|

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

SEC 1473 (7-02)

**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 control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

|   |   |  |  |  |  |
|---|---|--|--|--|--|
| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security<br>(Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|   | Date Exercisable    Expiration Date                         | Title    Amount or Number of   |  |  |  |

Shares or Indirect  
(I)  
(Instr. 5)

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                                |       |
|---|---------------|-----------|--------------------------------|-------|
|   | Director      | 10% Owner | Officer                        | Other |
| WENTWORTH KORY JAMES<br>C/O BLUEBIRD BIO, INC.<br>60 BINNEY STREET<br>CAMBRIDGE, MA 02142 | Â             | Â         | Â Principal Accounting Officer | Â     |

## Signatures

/s/ Jason F. Cole,  
Attorney-in-Fact 12/20/2017

Signature of Reporting Person Date

## Explanation of Responses:

### No securities are beneficially owned

\* 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.