bluebird bio, Inc. Form 4 June 29, 2015

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16. Form 4 or

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 5 obligations may continue. See Instruction

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

1(b).

(City)

Common

Stock

(State)

06/25/2015

(Zip)

(Print or Type Responses)

| 1. Name and Add GILLIS STEV | | ting Person * | 2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | | |
|---------------------------------------|-----------|---------------|---|--|--|--|--|
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction | ** | | | |
| C/O ARCH V PARTNERS, ROAD, SUIT | 8725 WEST | ΓHIGGINS | (Month/Day/Year) 06/25/2015 | X_ Director 10% Owner Officer (give title below) Other (specify below) | | | |
| | (Street) | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Filing(Check | | | |
| CHICAGO, II | L 60631 | | Filed(Month/Day/Year) | Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person | | | |

| 1.Title of | 2. Transaction Date | 2A. Deemed | 3. | 4. Securitie | s Acq | uired | 5. Amount of | 6. | 7. Nature of |
|-----------------|---------------------|--------------------|-------------|--------------|-----------|------------|------------------|--------------|----------------------------------|
| Security | (Month/Day/Year) | Execution Date, if | Transaction | (A) or Disp | osed o | of (D) | Securities | Ownership | Indirect |
| (Instr. 3) | | any | Code | (Instr. 3, 4 | and 5) | | Beneficially | Form: Direct | Beneficial |
| | | (Month/Day/Year) | (Instr. 8) | | | | Owned | (D) or | Ownership |
| | | | | | | | Following | Indirect (I) | (Instr. 4) |
| | | | | | (4) | | Reported | (Instr. 4) | |
| | | | | | (A) | | Transaction(s) | | |
| | | | Code V | Amount | or (D) | Price | (Instr. 3 and 4) | | |
| _ | | | | | ` ´ | | | | By ARCH |
| Common Stock | 06/25/2015 | | <u>J(1)</u> | 538,076 | D | <u>(1)</u> | 323,675 | I | Venture Fund VII, L.P. (2) |

11,837

Α

(1)

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

J(1)(3)

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control

13,507

D

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

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number.

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

| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | e and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|-----------------------|-------------|-----------|-------------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transacti | onNumber | umber Expiration Date | | Amour | nt of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Underl | ying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securit | ties | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. : | 3 and 4) | | Owne |
| | Security | | | | Acquired | | | | | | Follo |
| | | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | |
| | | | | | 4, and 5) | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | or Namel | | |
| | | | | | | Exercisable | Date | | Number | | |
| | | | | C 1 W | (A) (D) | | | | of | | |
| | | | | Code V | (A) (D) | | | , | Shares | | |

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

GILLIS STEVEN
C/O ARCH VENTURE PARTNERS
8725 WEST HIGGINS ROAD, SUITE 290
CHICAGO, IL 60631

Signatures

/s/ Steven Gillis 06/29/2015

**Signature of Person

Date

Explanation of Responses:

- * 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).

X

(1) Distribution of Common Stock held by a limited partnership to its partners for no consideration.

These shares are owned directly by ARCH Venture Fund VII, L.P. ("ARCH Fund VII"). The sole general partner of ARCH Fund VII is ARCH Venture Partners VII, L.P. ("ARCH Partners VII"). The sole general partner of ARCH Partners VII is ARCH Venture Partners VII, LLC ("ARCH VII LLC"). The Managing Directors of ARCH VII LLC, Robert T. Nelsen, Keith Crandell and Clinton Bybee, are

- (2) deemed to have voting and dispositive power over the shares and may be deemed to beneficially own Fund shares held by ARCH Fund VII. Each Managing Director disclaims beneficial ownership of these securities, except to the extent of his pecuniary interest therein, and this report shall not be deemed an admission that such Managing Director is the beneficial owner of such securities for Section 16 or any other purpose.
- Change from indirect to direct ownership of shares previously reported as beneficially owned by the reporting person Steven Gillis owns an interest in ARCH Partners VII but does not have voting or investment control over the shares held by ARCH Fund VII and disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein, and this report shall not be deemed an admission that Steven Gillis is the beneficial owner of such securities for Section 16 or any other purpose.

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

Reporting Owners 2

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