FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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hours per response:	0.5

1. Name and Addres	1 0		2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner						
(Last) C/O BLUEBIRI 60 BINNEY ST		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 12/01/2017	- X below) below) Chief Operating Officer						
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)						
CAMBRIDGE	MA	02142		X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(State)	(Zip)		Person						
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										

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. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	V Amount (A) or (D) Price		Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock ⁽¹⁾	12/01/2017		S		1,282(2)	D	\$172.15	13,718	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. Transa Code (8)		of		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	Amount or Number of Shares				

Explanation of Responses:

1. Restricted stock units for common stock vest over a four-year period at a rate of 25% on 11/30/2017, 25% on 11/30/2018, 25% on 11/30/2019, and 25% on 11/30/2020.

2. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.

Remarks:

/s/ Jason F. Cole, Attorney-infact

12/05/2017

Date

** Signature of Reporting Person

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.