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# FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

#### OMB APPROVAL OMB Number: 3235-0287

Estimated average burden	
hours per response:	0.5

1. Name and Addres	1 0	on*	2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
<u>vacion mark</u>					Director	10% Owner		
(Last) C/O BLUEBIRD		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 09/12/2017		Officer (give title below)	Other (specify below)		
60 BINNEY STREET			4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Che					
(Street) CAMBRIDGE MA 02142		02142		Line) X	Form filed by One Repor Form filed by More than Person	Ŭ		
(City)	(State)	(Zip)						
	 Ta	able I - Non-Deriva	tive Securities Acquired, Disposed of, or Benefi	cially (	Dwned			

#### 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 (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150. 4)
Common Stock	09/12/2017		М		6,000	A	\$30.47	8,000	D	
Common Stock	09/12/2017		<b>S</b> <sup>(1)</sup>		1,270	D	<b>\$126.1469</b> <sup>(2)</sup>	6,730	D	
Common Stock	09/12/2017		S <sup>(1)</sup>		4,730	D	\$127.0013 <sup>(3)</sup>	2,000	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				
Stock Option	\$30.47	09/12/2017		м			6,000	(4)	07/16/2024	Common Stock	6,000	\$0.00	14,000	D	

### Explanation of Responses:

1. the sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 8, 2017.

2. The range in prices for the transaction reported on this line was \$125.65 to \$126.60. The average weighted price was \$126.1469. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.

3. The range in prices for the transaction reported on this line was \$126.65 to \$127.35. The average weighted price was \$127.0013. The reporting person will provide, upon request by the SEC, the issuer or security holder of the issuer, full information regarding the number of shares sold at each separate price.

4. This option vests ratably over three years in annual installments, commencing on July 16, 2014.

**Remarks:** 

/s/ Jason F. Cole, Attorney-in-

Fact

09/14/2017

\*\* 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.