FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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).

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

Davidso		r Reporting Perso	on		_   <u>bl</u>			io, In						(Check	all applic	able)		Owner er (specify
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET				3. Date of Earliest Transaction (Month/Day/Year) 06/04/2018							X	below)		belo ical Officer				
(Street)  CAMBRI  (City)		1A State)	02142 (Zip)	2	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
(Oity)				Non-Der	ivativ	e Sec	curit	ies A	cauir	ed. I	Disposed	of. or	Benefic	ially (	Owned			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. 4.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and		5. Am Securi Benef Owner		int of es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership				
								Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)		(Instr. 4)	
Common	Stock			06/04/2	018				M		13,000	A	\$24.	.47	37	,905	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		5,700	D	\$186.2	255 <sup>(2)</sup>	32	,205	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		2,800	D	\$186.8	116 <sup>(3)</sup>	29	,405	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		600	D	\$188.4	375(4)	28	,805	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		1,300	D	\$190.0	635(5)	27	,505	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		1,600	D	\$190.9	609(6)	25	,905	D	
Common	Stock			06/04/2	018				S <sup>(1)</sup>		1,000	D	\$191.7	725 <sup>(7)</sup>	24	,905	D	
			Table								sposed of				wned			
Derivative Conversion Date Ex. Security or Exercise (Month/Day/Year) if a		Execur) if any			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 Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		rity (Ir		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owners Form: Direct ( or Indir (I) (Inst	Beneficial Ownership ect (Instr. 4)			
					Code	v	(A)	(D)	Date Exer	cisable	Expiration e Date	Title	or Numl of Share					

## Explanation of Responses:

\$24.47

Stock Option

(right to

buy)

1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 13, 2017.

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2. The range in prices for the transaction reported on this line was \$185.55 to \$186.50. The average weighted price was \$186.2255. 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 \$186.55 to \$187.50. The average weighted price was \$186.8116. The reporting person will provide, upon request by the SEC, the issuer or

13,000

(8)

- security holder of the issuer, full information regarding the number of shares sold at each separate price.

  4. The range in prices for the transaction reported on this line was \$188.00 to \$188.70. The average weighted price was \$188.4375. The reporting person will provide, upon request by the SEC, the issuer or
- 4. The range in prices for the transaction reported on this line was \$188.00 to \$188.70. The average weighted price was \$188.4375. 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.

  5. The range in prices for the transaction reported on this line was \$189.40 to \$190.35. The average weighted price was \$190.0635. 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.

  6. The range in prices for the transaction reported on this line was \$190.40 to \$191.25. The average weighted price was \$190.9609. 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.
- 7. The range in prices for the transaction reported on this line was \$191.55 to \$192.00. The average weighted price was \$191.725. 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.
- 8. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 1, 2015 and in 36 equal monthly installments thereafter.

## Remarks:

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

13,000

Stock

\$0.00

06/06/2018

14,000

D

<u>Fact</u>

03/03/2024

\*\* 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).

06/04/2018

\*\* 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 cor	ntained in this form are not requi	red to respond unless the form disp	olays a currently valid OMB Number.