### FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washir

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	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.

			<u>пс.</u> [ г	BLUI	∃ ]	(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner					
(Last) (First) (M C/O BLUEBIRD BIO, INC. 60 BINNEY STREET	,	B. Date of Earliest Tra 08/30/2018	ansactio	on (Mo	onth/Day/Year)		X Officer (give title X Other (specify below)  Chief Financial / and Strategy Officer  6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(Street)  CAMBRIDGE MA 02  (City) (State) (Zi	142	i. If Amendment, Da	te of Ori	ginal I	Filed (Month/E	Line)						
Table	I - Non-Derivativ	ve Securities A	Acquir	ed, I	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. Transaction Code (Instr. 8)					5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
			Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	08/30/2018		M		8,743	A	\$2.0864	44,238	D			
Common Stock	08/30/2018		M		4,007	A	\$5.5004	48,245	D			
Common Stock	08/30/2018		M		7,250	A	\$24.47	55,495	D			
Common Stock	08/30/2018		S <sup>(1)</sup>		19,022	D	\$175.365 <sup>(2)</sup>	36,473	D			
Common Stock	08/30/2018		S <sup>(1)</sup>		978	D	\$176.0273 <sup>()</sup>	35,495	D			
	ole II - Derivative (e.g., puts	s, calls, warran	ts, op	tion		ible se	ecurities)	Owned	r of 10	11 Nature		

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 (right to buy)	\$2.0864	08/30/2018		M			8,743	(4)	07/13/2021	Common Stock	8,743	\$0.00	0	D	
Stock Option (right to buy)	\$5.5004	08/30/2018		M			4,007	(5)	01/16/2023	Common Stock	4,007	\$0.00	0	D	
Stock Option (right to buy)	\$24.47	08/30/2018		М			7,250	(6)	03/03/2024	Common Stock	7,250	\$0.00	25,021	D	

# **Explanation of Responses:**

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on July 2, 2018.
- 2. The range of prices for the transaction reported on this line was \$175.00 to \$175.95. The average weighted price was \$175.365. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range of prices for the transaction reported on this line was \$176.00 to \$176.20. The average weighted price was \$176.0273. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 4. This option vested over a four-year period, at a rate of twenty-five percent (25%) on May 16, 2012 and in 36 equal monthly installments thereafter.
- 5. This option to purchase shares of our common stock was granted on January 16, 2013 with performance-based vesting criteria that were met as of January 1, 2013 and April 1, 2013. The shares underlying these options vested as follows: 25% vested on January 1, 2014 and April 1, 2014, respectively, with the remainder of the shares vesting in equal monthly installments over the following three years.
- 6. This option vested 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-

**Fact** 

\*\* Signature of Reporting Person

Date

09/04/2018

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.