## FORM 4

### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average bu	urden						

0.5

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

hours per response: or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Gregory Philip D</u>					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [ BLUE ]							Relationship of Reporting Person(s) to Issuer (Check all applicable)     Director				/ner				
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET					3. Date of Earliest Transaction (Month/Day/Year) 06/05/2019							X Officer (give title below) Other (specify below)  Chief Scientific Officer					ресіту			
(Street)			02142	!	4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting								
(City)	(S	tate)	(Zip)											Person						
		Tab	le I -	Non-Deri	vativ	e Sec	uriti	es A	cquir	ed, C	Disposed	of, or E	Benefic	ially	Owne	t				
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)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Securi Benefi Owned		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct Indirect Itr. 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				06/05/20	)19				M		600	Α	\$50	0.51 3		2,192	D			
Common Stock				06/05/20	)19	)		M		700	A	\$75	\$75.6		2,892		D			
Common Stock			06/05/20	)19			S <sup>(1)</sup>		999	D	\$127.5	127.5436 <sup>(2)</sup>		1,893		D				
Common Stock			06/05/20	)19			S <sup>(1)</sup>		201	D	\$128.4	\$128.4982 <sup>(3)</sup>		31,692		D				
Common Stock 06/05			06/05/20	)19	.9			S <sup>(1)</sup>		400	D	\$130.0	\$130.085 <sup>(4)</sup>		31,292		D			
Common Stock 06/0			06/05/20	)19	19			S <sup>(1)</sup>		200	D	\$131.05		31	31,092		D			
		Т	able								sposed of s, converti				wned					
Derivative Conversion Date		3. Transaction Date (Month/Day/Year)	ate Exec			ransaction code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e Exerc ation D h/Day/		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		De Sec (In:	Price of rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owr Forr Dire or Ir (I) (I	0. Dwnership orm: iirect (D) r Indirect ) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Share	er						
Stock Option (right to buy)	\$50.51	06/05/2019			M			600	(!	5)	03/01/2026	Commo Stock	n 600	) !	\$0.00	10,400		D		
Stock Option (right to	\$75.6	06/05/2019			M			700	(6	5)	02/01/2027	Commo Stock	<sup>n</sup> 700	)   ;	0.00	26,400		D		

#### **Explanation of Responses:**

- 1. The sales reported in this Form 4 were effected pursuant to a 10b5-1 trading plan adopted by the reporting person on July 2, 2018.
- 2. The range in prices for the transaction reported on this line was \$127.13 to \$128.10. The average weighted price was \$127.5436. 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 \$128.14 to \$128.54. The average weighted price was \$128.4982. 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. The range in prices for the transaction reported on this line was \$130.00 to \$130.28. The average weighted price was \$130.085. 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. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017 and in 36 equal monthly installments thereafter.
- 6. This option vests over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2018 and in 36 equal monthly installments thereafter.

## Remarks:

/s/ Jason F. Cole, Attorney-in-06/07/2019 Fact

\*\* 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.