FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL									
	OMB Number:	3235-0287								
	Estimated average burden									
l	hours per response:	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 or Section 30(h) of the Investment Company Act of 1940

					01	Occion	1 00(11)	01 111	C IIIVC3	uncin	Company 7 to	01 10-10							
1. Name ar <u>Gregor</u>		2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all appli Direct	cable) or	g Persor	Person(s) to Issuer 10% Owne					
	(F JEBIRD B IEY STREI		3. Date of Earliest Transaction (Month/Day/Year) 05/06/2019									below)		Other (speci below) tific Officer		specify			
(Street) CAMBRIDGE MA 02142						4. If Amendment, Date of Original Filed (Month/Day/Year)									ndividual or Joint/Group Filing (Check Applicable X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)						reisuii													
		Tab	le I -	Non-Deri	vativ	e Sec	uritie	es A	cquir	ed, C	Disposed	of, or E	Benefic	ially	Owne	d			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye						Execution Date,			3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and			Benefi Owned		ies cially Following	6. Owner Form: I (D) or I (I) (Inst	Direct ndirect r. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price		Report Transa (Instr. 3	ction(s)			(Instr. 4)
Common Stock 05/06/2019							9		M		600	A	\$50.	0.51		2,692)	
Common Stock 05/06/2019							9		M		700	A	\$75	.6		3,392	Ι		
Common)19	9		S ⁽¹⁾		1,200	D	\$138.1	375 ⁽²⁾ 32		2,192	Ι							
Common	Stock)19	9		S ⁽¹⁾		600	D	\$138.9	\$138.9308(3)		31,592							
		Т	able								sposed of				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu	eemed ution Date,	4. Transa	5. Nui		umber vative urities uired or oosed 0)	· ·		cisable and	7. Title a Amount Securiti Underly	nd of es ing ve Securi	8. I De Se	Price of erivative ecurity 1str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y Ov Fo Di or (I)	10. Ownership Form: Direct (D) or Indirect (I) (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	05/06/2019			M			600	(4	4)	03/01/2026	Commo Stock	ⁿ 600) :	\$0.00	11,000		D	
Stock Option (right to	\$75.6	05/06/2019			M			700	(:	5)	02/01/2027	Commo	¹ 700) :	\$0.00	27,100		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 \$137.46 to \$138.45. The average weighted price was \$138.1875. 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 \$138.56 to \$139.29. The average weighted price was \$138.9308. 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 over a four-year period, at a rate of twenty-five percent (25%) on January 4, 2017 and in 36 equal monthly installments thereafter.
- 5. 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-**Fact**

** Signature of Reporting Person

05/08/2019

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.