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

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person* Gregory Philip D						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									eck all applic	able)	g Pers	on(s) to Issi 10% Ow Other (s	ner
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 60 BINNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 03/02/2020									below)	below) below) Chief Scientific Officer			
(Street) CAMBRIDGE MA 02142					. 4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)																			
		Tak	le I - Nor	n-Deriv	ativ	e Se	curities	S Acq	uired, [Disp	osed o	f, or B	ene	ficially	y Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D							2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Dispose Code (Instr. 5)		ities Acquired (A) or d Of (D) (Instr. 3, 4 and			5. Amour Securitie Beneficia Owned F	ally Collowing	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or (D)		Price	Transact	Transaction(s) (Instr. 3 and 4)		[msu. 4)
Common Stock ⁽¹⁾ 03/02/						20			A		10,000 A			\$0.00	34,	34,708		D	
		-	Table II - I				urities /								Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution I if any (Month/Day	Date,	I. Fransaction Code (Instr. 3)		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)	Beneficial Ownership (Instr. 4)
					Code	v	(A))ate Exercisable		piration ate	Title	or Nu of	umber					
Stock Option (right to	\$73.84	03/02/2020			A		20,000		(2)	03	3/02/2030	Common Stock	1 20	0,000	\$0.00	20,000		D	

Explanation of Responses:

- $1. \ Restricted \ stock \ unit \ awards \ vest \ over \ a four-year \ period \ at \ the \ rate \ of \ 25\% \ on \ 01/04/2021, \ 25\% \ on \ 01/04/2022, \ 25\% \ on \ 01/04/2023, \ and \ 25\% \ on \ 01/04/2024.$
- 2. This option vests over a four-year period, at a rate of 25% on 01/04/2021 and in 36 equal monthly installments thereafter.

Remarks:

/s/ Helen C. Fu, Attorney-in-

<u>Fact</u>

** Signature of Reporting Person

Date

03/04/2020

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.