FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
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OMB APPROVAL							
OMB Number: 3235-0287							
Estimated average burden							
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

1. Name and Address of Reporting Person* <u>Tita-Reid Najoh</u>					2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									all applica Director	,		10% Ow	
(Last)	(F IEY STREE	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 11/11/2021								Officer (below)	give title	Other (specify below)		pecify	
(Street) CAMBR (City)			02142 (Zip)	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv ₋ine) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				.
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Dat			2. Transacti Date (Month/Day	Execution Date,		3. Transaction Disposed Of (D) (Instr. 3, 4 5) 8)		ed (A) o	5. Amount Securitie Beneficia Owned F		es Formally (D) (Sollowing (I) (I		Direct Indirect I	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
							Code	v	Amount	(A) or (D)	Pric	e	Transacti	Transaction(s) Instr. 3 and 4)			(moti. 4)	
Common Stock ⁽¹⁾⁽²⁾⁽³⁾ 11/1				11/11/20	/2021		J		9,361 A			9,361		61		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
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	Code	Transaction Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amour of Securities Underlying Derivative Security (Instr. 3 and 4)		5	Derivative Security	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s	lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amou or Numl of Share	ber		(Instr. 4)	J.1(3)		
Stock Option (right to buy)	\$9.46 ⁽⁴⁾	11/11/2021		J			15,057 ⁽⁴⁾	(4)		09/29/2031	Common Stock	15,0	157	\$0	15,057	7	D	

Explanation of Responses:

- 1. Represents restricted stock units awarded to the reporting person prior to the separation (the "Separation") of 2seventy bio, Inc. ("2seventy") from bluebird bio, Inc. ("bluebird"). In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the the Employee Matters Agreement by and between 2seventy and bluebird (the "EMA") to preserve the value associated with the original restricted stock unit award (see footnotes 2 and 3). This restricted stock unit award was originally granted on September 29, 2021 and vests ratably over three years in annual installments commencing on September 29, 2021.
- 2. bluebird equity awards granted prior to January 1, 2021 were converted into equity awards of both bluebird and 2seventy. The number of shares underlying the converted bluebird equity awards was determined by multiplying the number of shares underlying the existing bluebird equity awards or both office of bluebird equity awards was determined by multiplying the number of shares underlying the existing bluebird equity award by a fraction, the numerator of which is the volume-weighted average trading price of bluebird common stock (trading "regular way") on the five trading days immediately prior to the distribution date (the "bluebird Pre-Distribution VWAP") and the denominator of which is the sum of (1) the volume-weighted average trading price of 2seventy common stock (trading "regular way") on the five trading days immediately following the distribution date (the "bluebird Post-Distribution VWAP").
- 3. bluebird equity awards granted on or after January 1, 2021, such equity awards continued as bluebird equity awards, subject to adjustment. The adjusted number of shares of bluebird common stock underlying such equity awards is equal to the number of shares of bluebird common stock subject to the equity award immediately prior to the distribution multiplied by a fraction, the numerator of which is the bluebird Pre Distribution VWAP and the denominator of which is the bluebird Post-Distribution VWAP.
- 4. Represents options to purchase bluebird common stock awarded to the reporting person prior to the Separation. In connection with the Separation, the shares of common stock underlying this award were adjusted pursuant to the EMA to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on September 29, 2021 and shall vest over three years in annual installments commencing on September 29, 2021. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

Remarks:

11/16/2021 /s/ Helen Fu, Attorney-in-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.