FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.0	C. 20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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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* Baird William D III						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				vner	
(Last) (First) (Middle) 60 BINNEY STREET					3. Date of Earliest Transaction (Month/Day/Year) 11/11/2021								X Officer (give title below) Other (sp below) Chief Financial Officer						
(Street)	IDGE M	1A	02142		4.	If Ame	endme	ent, Date of	Original F	-iled	(Month/Day	/Year)	Line	X Form fi	led by One	e Repo	rting Persor	1	
(City)	(9	State)	(Zip)											Form filed by More than One Reporting Person					
		Та	ıble I - Nor	n-Der	ivati	ve Se	cur	ities Acq	uired,	Dis	posed of	, or Ben	eficially	y Owned					
			2. Transaction Date (Month/Day/Year)		ay/Year) if a		2A. Deemed Execution Date, if any (Month/Day/Year)		ction Instr.				5. Amour Securitie Beneficia Owned F	s ally ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	on(s)			(Instr. 4)		
Common Stock ⁽¹⁾⁽²⁾⁽³⁾			11/	11/11/2021				J		7,384	A	\$0	15,	413		D			
Common Stock ⁽²⁾⁽³⁾⁽⁴⁾			11/11/2021				J		7,384	A	\$0	22,	22,797		D				
Common Stock ⁽²⁾⁽³⁾⁽⁵⁾			11/11/2021				J		0 A		\$0	22,	22,797		D				
Common Stock ⁽²⁾⁽³⁾⁽⁶⁾			11/11/2021				J		0	A	\$0	22,	22,797		D				
Common Stock ⁽²⁾⁽³⁾⁽⁷⁾			11/	11/11/2021				J		0	A	\$0	22,797			D			
			Table II -	Deriv (e.g.,	ative puts	Sec s, cal	uriti Is, w	ies Acqui varrants,	ired, D option	ispo is, c	osed of, o	or Benef le secur	icially ities)	Owned		,			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Exercise (Month/Day/Year) if any (Month/Day/rivative		ate,		sunsaction de (Instr. Securities Acquired (A) or Disposed co (D) (Instr. 3, 4 and 5)		vative urities uired (A) isposed of Instr. 3, 4	6. Date Exercis Expiration Dat (Month/Day/Ye		sable and 7. Title and Am of Securities		ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securitie Beneficia Owned Following Reported	Ownersh S Form: Ully Direct (D Or Indirect (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	Transaction(s) (Instr. 4)			
Stock Option (right to buy)	\$78.03 ⁽⁸⁾	11/11/2021		J				60,000 ⁽⁸⁾	(8)		03/02/2029	Common Stock	59,072	\$0	59,07	72	D		
Stock Option (right to buy)	\$36.78 ⁽⁹⁾	11/11/2021			J			20,000 ⁽⁹⁾	(9)		03/02/2030	Common Stock	19,690	\$0	19,69	90	D		
Stock Option (right to	\$0.0 ⁽¹⁰⁾	11/11/2021			J			25,000 ⁽¹⁰⁾	(10)		02/16/2031	Common Stock	0.0	\$0	0		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 Employee Matters Agreement by and between 2seventy and bluebird (the "EMA") such that the reporting person received restricted stock units of 2seventy 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 March 1, 2019 and vests over a four-year period at a rate of 25% on 2/11/2020, 25% on 2/11/2021, 25% on 2/11/2022, and 25% on 2/11/2023.
- 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 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 multiplied by the distribution ratio and (2) the volume-weighted average trading price of bluebird bio 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 restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to the EMA such that the reporting person received restricted stock units of 2seventy 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 March 2, 2020 and vests 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.
- 5. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to 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 February 16, 2021 and vests over a four-year period at a rate of 25% on 01/04/2022, 25% on 01/04/2023, 25% on 01/04/2024, and 25% on 01/04/2025.
- 6. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to 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 August 2, 2021 and vests over a two-year period at the rate of 40% on August 2, 2022 and 60% on August 2, 2023.
- 7. Represents restricted stock units awarded to the reporting person prior to the Separation. In connection with the Separation, the restricted stock units underlying this award were adjusted pursuant to 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 August 2, 2021 and vests upon the satisfaction of certain
- 8. 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 such that the reporting person received options to purchase shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was originally granted on March 1, 2019 and vests over a four-year period, at a rate of 25% on 02/11/2020 and in 36 equal monthly installments thereafter. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.
- 9. 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 such that the reporting person received options to purchase shares of 2seventy common stock to preserve the value associated with the original award (see footnotes 2 and 3). This option was

originally granted on March 2, 2020 and vests over a four-year period, at a rate of 25% on 01/04/2021 and in 36 equal monthly installments thereafter. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

10. 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 February 16, 2021 and vests over a four-year period, at a rate of 25% on 01/04/2022 and in 36 equal monthly installments thereafter. The exercise price of the option has been adjusted based on the conversion ratio described in footnotes 2 and 3.

Remarks:

/s/ Helen Fu, Attorney-in-Fact 11/17/2021

** 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.

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