FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 [*]				2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last)				3. Date of Earliest Transaction (Month/Day/Year) 04/26/2017							Director Officer (give title below) Chief Le	10% (Other below gal Officer	(specify		
60 BINNEY STREET				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) CAMBRIDGE (City)	MA (State)	02142 (Zip)							x	,					
	Т	able I - N	lon-Deriva	tive	Securities Acc	juired,	Disp	posed of, o	or Ben	eficially	Owned				
1. Title of Security (Instr. 3) Date (Month/Day			Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Disposed Of and 5)			5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership			
						Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)		
Common Stock			04/26/20	17		М		3,750	Α	\$22.53	15,801	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)		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)				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
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$22.53	04/26/2017		М			3,750	(1)	02/10/2024	Common Stock	3,750	\$0.00	51,882	D	

Explanation of Responses:

1. This option vests over a four-year period, at a rate of twenty-five percent (25%) on March 6, 2015 and in 36 equal monthly installments thereafter.

Remarks:

1	τ		T	0	
S/	Jas	on	H	Col	le
9/	540	on	<u>.</u> .	00.	

** Signature of Reporting Person Date

04/28/2017

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.