FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to	STATEMENT OF CHANGE								
Section 16. Form 4 or Form 5 obligations may continue. See									
obligations may continue. See									
Instruction 1(b).	Filed pursuant to Section 16(a								

OMB APPROVAL OMB Number: ES IN BENEFICIAL OWNERSHIP

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

Name and Address of Reporting Person* Gregory Philip D					bluebird bio, Inc. [BLUE]										Check all D X	applicable) Director Officer (give title	10% Owner Other (specify	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET, THIRD FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 01/05/2017									D	below) below) Chief Scientific Officer			
(Street)			02141		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							i. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)	(St		Zip)															
		Tabl	e I - Nor	n-Deriv	ative	Sec	curitie	s Acc	luired,	Dis	posed o	of, o	r Ben	efici	ally Ov	vned		
Date				2. Transa Date (Month/D		ır) E	2A. Deemed Execution Date, if any (Month/Day/Year)				Disposed	ecurities Acquired (A) posed Of (D) (Instr. 3, 4			nd Se Be Ov	Amount of curities eneficially when Following eported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
										v	Amount		(A) or (D)	Price	Tra	ansaction(s) str. 3 and 4)		(1113411 4)
Common Stock 01/0					/05/2017				S		790 ⁽¹⁾ D		D	\$67	.1(2)	29,279	D	
		Та									sed of, onvertib					ed		
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/Yea	Date,	4. Transaction Code (Instr. 8)		n of		6. Date Exercisa Expiration Date (Month/Day/Yea		e	Amo Sec Und Deri Sec	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price Derivati Security (Instr. 5)	ve derivative Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
									Date		Expiration		or	ount				

Explanation of Responses:

- 1. Shares were sold to cover tax withholding obligations incurred in connection with the vesting of Restricted Stock Units.
- 2. The range in prices for the transaction reported on this line was \$67.00 to \$67.50. The average weighted price was \$67.10. 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.

Remarks:

/s/ Jason F. Cole, Attorney-in-01/09/2017 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.