FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

igitin, D.C. 20049	OMB APF	OMB APPROVAL					
	OMB November	2225.0					

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

OMB APPROVAL									
OMB Number: 3235-0									
Estimated average burden									
hours per response:	0.5								

Name and Address of Reporting Person* Davidson David						2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									Check a	ationship of Reporting all applicable) Director Officer (give title		ng Person(s) to Issu 10% Own Other (sp		wner	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC.					3. Date of Earliest Transaction (Month/Day/Year) 01/05/2017									X				oelow)			
150 SECOND STREET					_ 4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								6	Individual or Joint/Group Filing (Check Applicable						
(Street)	IDGE M	A (02141											Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	tate) ((Zip)													FEIS	OH				
		Tab	le I - No	n-Deriv	vative	Se	curitie	s Acc	uired,	Dis	posed o	f, o	r Ben	efici	ally C	Owne	ed				
1. Title of Security (Instr. 3) 2. Transi Date (Month/L						ction 2A. Deemed Execution Date if any (Month/Day/Ye.		n Date,	Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				4 and S B O		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount		(A) or (D)	Price	, l	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)	
Common	Common Stock 01/0					5/2017					923(1))	D \$67		7.1 ⁽²⁾ 8,677		8,677	D			
		Ta									sed of, onvertib					ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date, Transact					6. Date E Expiratio (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		nstr. 3			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code		(A)	(D)	Date Exercisa		Expiration Date	Number of Shares									

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-Fact 01/09/2017

** 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.