FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

	OMB APPRO	VAL
	OMB Number:	3235-0287
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	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* Cole Jason									er or Trad <u>.</u> [BLU		Symbol				Check	all app Direc	olicable)		ssuer Owner (specify	
(Last) (First) (Middle) C/O BLUEBIRD BIO, INC. 150 SECOND STREET						3. Date of Earliest Transaction (Month/Day/Year) 01/05/2017									X Officer (give title Officer (specify below) Chief Legal Officer					
(Street) CAMBR (City)	IDGE M	Α ()2141 Zip)		4. If	Ame	endment,	Date o	f Original	Filed	(Month/Da	ay/Ye	ear)		. Indivine)	Forn	n filed by One n filed by Mor	e Reporting Per	son	
		Tabl	e I - Non	-Deriv	ative	Se	curitie	s Acc	uired,	Dis	posed o	f, o	r Ben	efici	ally	Owne	ed			
Date					n/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)						5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	Amount				(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)							
Common	Stock			01/05	5/2017				S	S			D \$67.		7.1 ⁽²⁾ 9,3		9,389	D		
		Та	ble II - D (e						,		sed of, onvertib				y Ov	vned				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security		ercise (Month/Day/Year) of ative	3A. Deemed Execution Date if any (Month/Day/Ye		Date, Transaction				6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of		ount mber	Deri Secu	ivative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

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:

Jason F. Cole

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.