FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

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

NT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	OVAL
	OMB Number:	3235-0287
l	Estimated average burd	en
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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

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)								
<u>Leschly Nick</u>						Dideond bio, me. [DLOE]									X Director		10% Owner		wner			
(Last)	(F	irst) (Middle)		3. D	Date of Earliest Transaction (Month/Day/Year)									X	Officer (give title below)			Other (specify below)			
C/O BLUEBIRD BIO, INC.				06/	06/16/2014									President and CEO								
150 SEC	OND STR	EET																				
					- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6	6. Individual or Joint/Group Filing (Check Applicable							
(Street)												,	,		Line)							
CAMBR	IDGE M	IA (2141												X Form filed by One Reporting Person							
					-											Forn Pers	n filed by Mor	re than On	e Rep	orting		
(City)	(S	tate) (Zip)												1 613011							
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execution Date,				es Acquired (A) or Of (D) (Instr. 3, 4 a			Benefic Owned		ities icially d Following	6. Owners Form: Dir (D) or Ind (I) (Instr.	ect irect	7. Nature of Indirect Beneficial Ownership					
									Code	v	Amount	(A) or (D) Price		Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock 06/16/2				2014	2014					9,000	1)	\$39.86(2)		406,584		D					
Common	Stock			06/16/	2014	2014			S ⁽¹⁾		33,925	1)	\$40.06(3)		372,659		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)	Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any				ansaction of Deriva Securi (A) or Dispos of (D) (Instr. and 5)		ative rities ired osed	6. Date Expirati (Month/	on Da				8. Price Derivat Securit (Instr. 5		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Nui of	nount mber ares								

Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on October 15, 2013.
- 2. The range of prices for the transaction reported on this line was \$39.10 to \$41.52. The average weighted price was \$39.8622. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range of prices for the transaction reported on this line was \$40.00 to \$41.52. The average weighted price was \$40.0559. The reporting person will provide, upon request by the SEC, the issuer or a 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

** Signature of Reporting Person

Date

06/18/2014

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.