FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APP	ROVAL
OMB Number:	3235-028

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(h)

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

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Name and Address of Reporting Person* Leaghble Nijels							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>							Dideona oto, me. [Dhon]									X	Direc	ctor	10%	Owner		
	-											Offic	er (give title	Othe below	r (specify							
(Last)		3. Date of Earliest Transaction (Month/Day/Year) 06/20/2014										belov	,		')							
C/O BLUEBIRD BIO, INC.							00/20/2014									President and CEO						
150 SECOND STREET																						
							4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable						
(Street)																ine)	F	- £11 b O	. Danastina Da			
CAMBR	IDGE	MA	. C	2141												X Form filed by One Reporting Person						
						-											Forn Pers		e than One Re	porting		
(City)		(Sta	te) (2	Zip)																		
			Tabl	e I - No	n-Deriv	ative/	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, oı	r Ber	nefici	ally (Owne	ed				
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Da		Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			(A) or 3, 4 an	and 5) Secu Bene Own		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
											v	Amount	(A (C	A) or D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(11150: 4)		
Common Stock 06/20/2							.014			S ⁽¹⁾		17,075		D	\$40.06(2)		355,584 355,584		D			
			Та	ble II -								osed of, convertib					vned			•		
1. Title of Derivative Security (Instr. 3)	2. Conversi or Exerci Price of Derivativ Security	ion ise	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/I		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expirat (Month	ion Da		7. Title and Amount of Securities Underlying Derivative Security (In: and 4)		f g			9. Number o derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
						Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Nu of	umber							

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 \$40.00 to \$40.42. The average weighted price was \$40.0553. 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 06/24/2014

** 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.