SEC For	m 4																	
	FORM	4	UNITE	D STA	ATES	S SEC	CURITIE Washing	SAN gton, D.C			NGE	COI	MMISSI	ON			APPROV	///
Section obligation	this box if no lo 16. Form 4 or ons may contin ion 1(b).	Form 5	STA		ed purs	suant to	Section 16(a)	of the S	ecuriti	ies Exchanç	je Act	of 1934	ERSHIF	•	OMB N Estima	lumber:	age burden	3235-0287 0.5
1. Name and Address of Reporting Person* <u>TVM V LIFE SCIENCE VENTURES GMBH</u> <u>& CO KG</u>				or Section 30(h) of the Investment Company Act of 1940 2. Issuer Name and Ticker or Trading Symbol <u>bluebird bio, Inc.</u> [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title Other (specify					
	A CAPITAL		(Middle)			te of Ear 4/2013	liest Transac	tion (Mor	nth/Da	ıy/Year)				below)			below)	
MAXIMILIANSTRASSE 35C (Street) MUNICH 2M 80539				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv	 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person 					
(City)	?)	State)	(Zip)															
1. Title of S	Security (Inst	r. 3)	Table I - Noi	2. Trans Date	Acq saction 2A. Deemed //Day/Year) Execution Date, if any (Month/Day/Year)			3. Transa Code (4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 a			A) or	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)		Form: Direct I Owned (D) or Indirect I eported (I) (Instr. 4) (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount	unt (A) or (D)		Price					(11511.4)	
Common	Stock				4/201			С		2,254,3		Α	(1)	2,254,3	357	I	D ⁽²⁾	
							ities Acqu warrants,							ned				
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/Year)	4. Transa Code 8)		Dispos	tive	6. Date I Expiratio (Month/I	on Da		Securities Under		nderlying	8. Price of 9. Num Derivative derivat Security Securit (Instr. 5) Benefic Owned Followi Report		tive Owners ties Form: cially Direct (I or Indir ing (I) (Inst	Ownership	Beneficia Ownersh (Instr. 4)
				Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title		Amount or Number of Shares	Transa (Instr. 4		tion(s)		
Series A-1 Convertible Preferred Stock	(3)	06/24/2013		с			6,169,117	(3)		(3)		nmon ock	325,255	\$0	0		D ⁽²⁾	
Series A-2 Convertible Preferred Stock	(3)	06/24/2013		с			11,835,834	(3)		(3)		nmon ock	624,021	\$0	0		D ⁽²⁾	
Series B Convertible Preferred Stock	(3)	06/24/2013		С			17,749,014	(3)		(3)		nmon ock	935,783	\$0	0		D ⁽²⁾	
Series C Convertible Preferred Stock	(3)	06/24/2013		С			3,994,248	(3)		(3)		nmon ock	210,589	\$0	0		D ⁽²⁾	
Series D Convertible Preferred Stock	(3)	06/24/2013		с			3,010,234	(3)		(3)		nmon ock	158,709	\$0	0		D ⁽²⁾	
Series A-1 Warrants	\$0.6619	06/24/2013		J ⁽⁵⁾			660,982	(4)		11/16/2015	Conv Pres	es A-1 vertible ferred ock	660,982	\$0	0		D ⁽²⁾	
Common Stock Warrants	\$12.55	06/24/2013		J ⁽⁵⁾		34,849		(4)		11/16/2015		nmon ock	34,849	\$0	34,8	349	D ⁽²⁾	
Series A-1 Warrants	\$0.6619	06/24/2013		J ⁽⁵⁾			440,650	(4)		10/26/2016	Conv Pres	es A-1 vertible ferred ock	440,650	\$0	0		D ⁽²⁾	
Common Stock Warrants	\$12.55	06/24/2013		J ⁽⁵⁾		23,232		(4)		10/26/2016		nmon ock	23,232	\$0	23,2	232	D ⁽²⁾	
Series A-1 Warrants	\$0.6619	06/24/2013		J ⁽⁵⁾			1,038,674	(4)		05/03/2017	Conv Pres	es A-1 vertible ferred ock	1,038,674	\$0	0		D ⁽²⁾	
Common Stock Warrants	\$12.55	06/24/2013		J ⁽⁵⁾		54,760		(4)		05/03/2017		nmon ock	54,760	\$0	54,7	760	D ⁽²⁾	
Series A-1 Warrants	\$0.6619	06/24/2013		J ⁽⁵⁾			236,062	(4)		08/28/2018	Conv Pres	es A-1 vertible ferred ock	236,062	\$0	0		D ⁽²⁾	

D⁽²⁾

J⁽⁵⁾

12,445

(4)

08/28/2018

Common Stock

12,445

\$<mark>0</mark>

12,445

Common Stock Warrants

\$12.55

06/24/2013

1. Title of Derivative Security 2. 3. Transaction Date 3A. Deemed Execution Date, Security 4. 5. Number of Derivative Security 6. Date Exercisable and Derivative Securities 7. Title and Amount of Securities Underlying Derivative Security 8. Price of Derivative derivative Securities 9. Number of derivative Securities 10. 11. Nature of Indirect Securities				Table II - I (uired, Disp , options,				ed			
Image: space of the stand space of	Derivative Conversion Security or Exercise (Instr. 3) Price of Derivative		Date	Execution Date, if any	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D)		6. Date Exercisable and Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr.		Derivative	derivative Securities Beneficially Owned Following	Ownership Form: Direct (D) or Indirect	of Indirect Beneficial Ownership
Source 6x000 6x0000 6x00					Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Number of		Transaction(s)		
		\$0.6619	06/24/2013		J ⁽⁵⁾			236,062	(4)	12/18/2018	Convertible Preferred	236,062	\$0	0	D ⁽²⁾	
Sinchell Bindel Golden Image Pill	Stock	\$12.55	06/24/2013		J ⁽⁵⁾		12,445		(4)	12/18/2018		12,445	\$0	12,445	D ⁽²⁾	
Start Part 200 Part 200 <t< td=""><td></td><td>\$0.6619</td><td>06/24/2013</td><td></td><td>J⁽⁵⁾</td><td></td><td></td><td>462,681</td><td>(4)</td><td>04/15/2019</td><td>Convertible Preferred</td><td>462,681</td><td>\$0</td><td>0</td><td>D⁽²⁾</td><td></td></t<>		\$0.6619	06/24/2013		J ⁽⁵⁾			462,681	(4)	04/15/2019	Convertible Preferred	462,681	\$0	0	D ⁽²⁾	
Status Name 	Stock	\$12.55	06/24/2013		J ⁽⁵⁾		24,393		(4)	04/15/2019		24,393	\$0	24,393	D ⁽²⁾	
Such In Humer and Addresse of Regoring Paramet TVM 000000000000000000000000000000000000	Series B Warrants	\$0.3262	06/24/2013		J ⁽⁶⁾			287,400	(4)	04/15/2019	Convertible Preferred	287,400	\$0	0	D ⁽²⁾	
TVM ULFE SCIENCE VENTURES GMBH & COKGCo TVM CAPITAL GROUPMAXIMILANSTRASSE 33C(Simen)(MUNCH 2M)2M(Simen)1. Name and Address of Regoring Parson"TVM Capital GmbH(Law)(Co TVM CAPITAL GROUPMAXIMILANSTRASSE 33C(Simen)(Munch 2M)(Simen)MUNCH 2M)(Simen)(Co TVM CAPITAL GROUPMUNCH 2M)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Simen)(Day)(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Law)(Pan)(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Co TVM CAPITAL GROUP(Simen)(MUNCH 2M)(Simen)(Simen)(MUNCH 2M)(Simen)(Simen)(Simen)(Simen)(Simen)(Simen) </td <td>Stock</td> <td>\$6.19</td> <td>06/24/2013</td> <td></td> <td>J⁽⁶⁾</td> <td></td> <td>15,152</td> <td></td> <td>(4)</td> <td>04/15/2019</td> <td>Common Stock</td> <td>15,152</td> <td>\$0</td> <td>15,152</td> <td>D⁽²⁾</td> <td></td>	Stock	\$6.19	06/24/2013		J ⁽⁶⁾		15,152		(4)	04/15/2019	Common Stock	15,152	\$0	15,152	D ⁽²⁾	
Streety MUNCH2M80539(Chy)(State)(Zip)1. Name and Adtress of Reporting Person'Polack AxelPolack Axel(Middle)CO TVM CAPITAL GROUP(Middle)MAXIMILIANSTRASSE 3SC(Streety)MUNCH2M80539(Chy)(State)(Zip)1. Name and Adtress of Reporting Person'(Middle)SCHUHSLER HELMUT(Middle)(ast)(First)(Middle)CO TVM CAPITAL GROUP(Middle)MAXIMILIANSTRASE 3SC(Middle)(chy)(State)(Zip)1. Name and Adtress of Reporting Person'(Middle)CO TVM CAPITAL GROUP(Middle)MAXIMILIANSTRASE 3SC(Middle)(Street)(Middle)MAXIMILIANSTRASE 3SC(Middle)(Street)2M80539(Street)2M80539(Street)(Xig)(Zip)	C/O TVI MAXIM (Street) MUNICI (City) 1. Name ar TVM ((Last)	ILIANSTRA H nd Address of Capital Gn	ASSE 35C 2M (State) Reporting Person* 1DH (First)	80539 (Zip)												
CibyCibateCZip)1. Name and Address of Reporting Person'Polack AxelPolack Axel(Middle)(Last)(First)(Middle)CO TVM CAPITAL GROUP80539MUNICH2M80539(City)(State)(Zip)1. Name and Address of Reporting Person'(Middle)CO TVM CAPITAL GROUP(Middle)(Last)(First)(Middle)(City)(State)(Zip)1. Name and Address of Reporting Person'(Middle)(Co TVM CAPITAL GROUP(Middle)(Co TVM CAPITAL GROUP(Middle)(Street)(Middle)(Co TVM CAPITAL GROUP(Middle)(Street)(Middle)(City)(State)(Zip)	(Street)			80230			_									
1. Name and Address of Reporting Person* Polack Axel (Last) (First) (Middle) C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 3SC (Street) MUNICH 2M 80539 (City) (State) (Zip) 1. Name and Address of Reporting Person* SCHUHSLER HELMUT (Last) (First) (Middle) C/O TVM CAPITAL GROUP Middle) C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 3SC (Middle) C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 3SC (Middle) C/O TVM CAPITAL GROUP MUNICH 2M 80539 (City) (State) (Zip)							-									
C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 35C(Street) MUNICH2M80539(Ciy)(State)(Zip)1. Name and Address of Reporting Person* SCHUHSLER HELMUT(Middle)(Last)(First)(Middle)C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 35C(Street) MUNICH2M(Street) MUNICH2M80539(Ciy)(State)(Zip)	1. Name ar		Reporting Person*													
MUNICH2M80539(City)(State)(Zip)1. Name and Address of Reporting Person*SCHUHSLER HELMUT(Last)(First)(Middle)(Last)(First)(Middle)C/O TVM CAPITAL GROUPMAXIMILIANSTRASSE 35C(Street)2M80539(City)(State)(Zip)	C/O TVI		GROUP	(Middle)			_									
1. Name and Address of Reporting Person* SCHUHSLER HELMUT (Last) (First) (Middle) C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 35C (Street) MUNICH 2M 80539 (City) (State) (Zip)	1 · · ·	H	2M	80539												
SCHUHSLER HELMUT (Last) (First) (Middle) C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 35C MAXIMILIANSTRASSE 35C (Street) MUNICH 2M 80539 (City) (State) (Zip)	(City)		(State)	(Zip)			_									
C/O TVM CAPITAL GROUP MAXIMILIANSTRASSE 35C (Street) MUNICH 2M 80539 (City) (State) (Zip)																
MUNICH 2M 80539 (City) (State) (Zip)	C/O TVI		GROUP	(Middle)			_									
		H	2M	80539			_									
· · ·			. ,	(Zip)												

<u>Goll Alexandra</u>										
(Last)	(First)	(Middle)								
C/O TVM CAPITAL GROUP										
MAXIMILIANSTR	ASSE 35C									
(Street)										
MUNICH	2M	80539								
(City)	(State)	(Zip)								
1. Name and Address of Birner Hubert	Reporting Person*									
(Last)	(First)	(Middle)								
C/O TVM CAPITAL GROUP										
MAXIMILIANSTRASSE 35C										
(Street)										
MUNICH	2M	80539								
(City)	(State)	(Zip)								
1. Name and Address of	Reporting Person*									
<u>Fischer Stefan</u>										
(Last)	(First)	(Middle)								
C/O TVM CAPITAL GROUP										
MAXIMILIANSTRASSE 35C										
(Street)										
MUNICH	2M	80539								
(City)	(State)	(Zip)								

Explanation of Responses:

1. This transaction represents the total number of shares received upon conversion of bluebird bio, Inc. ("bluebird") Series A-1 Convertible Preferred Stock ("Series A-1 Shares"), Series A-2 Convertible Preferred Stock ("Series B Shares"), Series B Shares"), Series B Shares"), Series C Convertible Preferred Stock ("Series C Shares") and Series D Convertible Preferred Stock (the "Series D Shares" and together with the Series A-1 Shares"). Series A-2 Shares A-

2. The shares are held directly by TVM V Life Science Ventures GmbH & Co. KG ("TVM V"). TVM V's general partner, TVM Capital GmbH ("TVM"), and its authorized officers, Axel Polack ("Polack"), Helmut Schuehsler ("Schuehsler"), Alexandra Goll ("Goll"), Hubert Birner ("Birner") and Stefan Fischer ("Fischer") may be deemed to share voting and dispositive power over the shares held by TVM V. Each of TVM, Polack, Schuehsler, Goll, Birner and Fischer disclaims beneficial ownership of these shares except to the extent of their pecuniary interest therein, if any.

3. The Preferred Shares automatically converted into bluebird Common Stock on an 18.967-for-one ratio upon the closing of the initial public offering of bluebird without payment of further consideration. The Preferred Shares had no expiration date.

4. The warrants are currently exercisable.

5. This transaction represents a deemed disposition of warrants to purchase shares of Series A-1 Convertible Preferred Stock and a deemed acquisition of warrants to purchase shares of Common Stock on an 18.967-for-one basis, which happened automatically upon the closing of the initial public offering of bluebird without payment of further consideration. The transaction is listed solely for the purpose of reporting the change in the shares underlying the warrants.

6. This transaction represents a deemed disposition of warrants to purchase shares of Series B Convertible Preferred Stock and a deemed acquisition of warrants to purchase shares of Common Stock on an 18.967-for-one basis, which happened automatically upon the closing of the initial public offering of bluebird without payment of further consideration. The transaction is listed solely for the purpose of reporting the change in the shares underlying the warrants.

/s/ Stefan Fischer, Attorney-in-	
Fact for TVM V Life Science	06/24/2013
Ventures GmbH & Co. KG	
<u>/s/ Stefan Fischer, Attorney-in-</u> <u>Fact for TVM Capital GmbH</u>	06/24/2013
· · · · · ·	
/s/ Stefan Fischer, Attorney-in-	06/24/2013
Fact for Axel Polack	00/21/2010
/s/ Stefan Fischer, Attorney-in-	00/24/2012
Fact for Helmut Schuehsler	06/24/2013
/s/ Stefan Fischer, Attorney-in-	
Fact for Alexandra Goll	06/24/2013
/s/ Stefan Fischer, Attorney-in-	00/24/2012
Fact for Hubert Birner	06/24/2013
/s/ Stefan Fischer	06/24/2013
** 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.