UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 1)*

T2 BIOSYSTEMS, INC.

(Name of Issuer)

Common Stock, \$0.001 par value (Title of Class of Securities)

> 89853L104 (CUSIP Number)

Polaris Partners One Marina Park Drive, 10th Floor Boston, MA 02210 Gunderson Dettmer Stough Villeneuve Franklin & Hachigian, LLP One Marina Park Drive, Suite 900 Boston, MA 02210 Attn: Jay K. Hachigian, Esq. (617) 648-9100

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

December 31, 2015 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box:

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1.	Names of	Names of Reporting Persons.		
	Polaris Venture Partners V, L.P. ("PVP V")			
2.	Check t	he Ap	propriate Box if a Member of a Group (See Instructions)	
	(a) 🗆	(b)		
3.	SEC Us	e Only	y .	
4.	Source	of Fun	ds (See Instructions)	
5.	WC Check i	f Disc	losure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)	
6.		ship or	Place of Organization	
	Delawa	re		
		7.	Sole Voting Power	
			1,947,653 shares, except that (i) Polaris Venture Management Co. V, L.L.C. ("PVM V"), the general partner of PVP V, may be	
			deemed to have sole power to vote these shares, and (ii) Jonathan A. Flint ("Flint"), a managing member of PVM V, may be	
			deemed to have shared power to vote these shares, Terrance G. McGuire ("McGuire"), a managing member of PVM V, may be	
-	mber of		deemed to have shared power to vote these shares and Alan Crane ("Crane"), a holder of an assignee interest in PVM V, may be deemed to have shared power to vote these shares.	
-	hares eficially	8.	Shared Voting Power	
	vned by			
	Each		See response to row 7.	
	porting Person	9.	Sole Dispositive Power	
	With		1,947,653 shares, except that (i) PVM V, the general partner of PVP V, may be deemed to have sole power to dispose of these	
			shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, McGuire, a	
			managing member of PVM V, may be deemed to have shared power to dispose of these shares and Crane, a holder of an assignee	
		4.0	interest in PVM V, may be deemed to have shared power to dispose of these shares.	
		10.	Shared Dispositive Power	
			See response to row 9.	
11.	Aggrega	ate An	nount Beneficially Owned by Each Reporting Person	
	1,947,65			
12.	Check i	f the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)	
13.	Percent	of Cla	ass Represented by Amount in Row (11)	
8.2%				
14.	Type of	Repo	rting Person (See Instructions)	
	PN			
-				

CUSIP No. 89853L104

1.	Names of Reporting Persons.					
	Polaris Venture Partners Entrepreneurs' Fund V, L.P. ("PVPE V")					
2.	Check t	he Apj	propriate Box if a Member of a Group (See Instructions) ⊠			
	(a) 🗆	(0)				
3.	SEC Us	e Only	7			
4.	Source of	of Fun	ds (See Instructions)			
	WC	WC				
5.	Check it	f Discl	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
6.	Citizens	hip or	Place of Organization			
	Delawa	e				
		7.	Sole Voting Power			
-	mber of		37,961 shares, except that (i) PVM V, the general partner of PVPE V, may be deemed to have sole power to vote these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to vote these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shares.			
Ber	Shares eficially vned by	8.	Shared Voting Power			
	Each	9.	See response to row 7. Sole Dispositive Power			
F	Reporting Person With		37,961 shares, except that (i) PVM V, the general partner of PVPE V, may be deemed to have sole power to dispose of these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to dispose of these shares.			
		10.	Shared Dispositive Power			
			See response to Row 9.			
11.	Aggrega	ate An	nount Beneficially Owned by Each Reporting Person			
	37,961 shares					
12.	Check if	f the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.	Percent	of Cla	iss Represented by Amount in Row (11)			
0.2%						
14.	Type of	Repor	rting Person (See Instructions)			
	PN					

1.	1. Names of Reporting Persons.			
	Polaris '	Ventur	e Partners Founders' Fund V, L.P. ("PVPFF V")	
2.	Check t		propriate Box if a Member of a Group (See Instructions)	
	(a) 🗆	(b)		
3.	SEC Us	e Only	7	
4.	Source of	of Fun	ds (See Instructions)	
	WC			
5.	Check it	f Discl	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)	
6.	Citizens	hip or	Place of Organization	
	Delawa	re		
		7.	Sole Voting Power	
Nu	Number of		13,344 shares, except that (i) PVM V, the general partner of PVPFF V, may be deemed to have sole power to vote these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to vote these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shares.	
Ben	Shares eficially vned by	8.	Shared Voting Power	
	Each	9.	See response to row 7. Sole Dispositive Power	
P	Reporting Person With		13,344 shares, except that (i) PVM V, the general partner of PVPFF V, may be deemed to have sole power to dispose of these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to dispose of these shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to dispose of these shares.	
		10.	Shared Dispositive Power	
			See response to Row 9.	
11.	Aggregate Amount Beneficially Owned by Each Reporting Person			
	13,344 s			
12.	Check it	f the A	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)	
13.		of Cla	ass Represented by Amount in Row (11)	
	0.1%			
14.	Type of Reporting Person (See Instructions)			
	PN			
	1			

CUSIP No. 89853L104

1.	Names of Reporting Persons.					
	Polaris Venture Partners Special Founders' Fund V, L.P. ("PVPSFF V")					
2.	Check tl	he App	propriate Box if a Member of a Group (See Instructions)			
	(a) 🗆	(b)				
3.	SEC Us	e Only	7			
4.	Source of	of Fun	ds (See Instructions)			
	WC	WC				
5.		f Discl	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
6.		hip or	Place of Organization			
	Delawaı	10				
	Deldwal	.e 7.	Sole Voting Power			
	Number of		19,492 shares, except that (i) PVM V, the general partner of PVPSFF V, may be deemed to have sole power to vote these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to vote these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to vote these shares.			
	hares eficially	8.	Shared Voting Power			
Ow	ned by		See response to row 7.			
	Each porting	9.	Sole Dispositive Power			
Р	Person With		19,492 shares, except that (i) PVM V, the general partner of PVPSFF V, may be deemed to have sole power to dispose of these shares, and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to dispose of these shares.			
		10.	Shared Dispositive Power			
			See response to row 9.			
11.	Aggregate Amount Beneficially Owned by Each Reporting Person					
	19,492 shares					
12.			ggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.			ss Represented by Amount in Row (11)			
0.1%						
14.		Repor	ting Person (See Instructions)			
	PN					
	PN					

1.	Names of Reporting Persons.				
	Polaris Venture Management Co. V, L.L.C. ("PVM V")				
2.	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) 🗆	(b)			
3.	SEC Us	e Only	y de la constante de		
4.	Source	of Fun	ds (See Instructions)		
5.	AF Check it	Disc	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
5.		Disci			
6.	□ Citizens	hin or	Place of Organization		
0.		-			
	Delawa				
		7.	Sole Voting Power		
			2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that Flint, a managing member of PVM V (which is the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V), may be deemed to have shared power to		
			vote these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares and Crane,		
-	mber of hares		a holder of an assignee interest in PVM V, may be deemed to have shared power to vote these shares.		
	eficially	8.	Shared Voting Power		
	vned by Each		See response to row 7.		
	porting	9.	Sole Dispositive Power		
	erson With		2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
	vviui		shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that Flint, a managing member		
			of PVM V (which is the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V), may be deemed to have shared power to dispose of these shares, McGuire, a managing member of PVM V, may be deemed to have shared power to dispose of these shares		
			and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to dispose of these shares.		
		10.	Shared Dispositive Power		
			See response to row 9.		
11.	Aggrega	ite An	see response to row 9.		
11,	199169	uc 7 m	Jour Deleticitity Owned by Each Reporting Person		
2,018,450 shares					
12.	Check it	the A	aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)		
13.	Percent	of Cla	iss Represented by Amount in Row (11)		
	8.5%				
14.	Type of	Repoi	rting Person (See Instructions)		
	00				
	I				

1.	Names of Reporting Persons.				
	Jonathan A. Flint				
2.	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) \square (b) \boxtimes				
3.	SEC Us	e Only			
4	6	(F			
4.	Source of	or Fun	ds (See Instructions)		
	AF				
5.		Disc	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
6.	Citizens	hip or	Place of Organization		
	USA				
	03/1	7.	Sole Voting Power		
			2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general		
			partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to vote PVP V's, PVPE V's, PVPFF V's and PVPSFF V's shares (collectively, the "Fund V Shares"), McGuire, as a managing member of PVM V, may be deemed to have		
Nu	mber of		shared power to vote the Fund V Shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared		
	hares		power to vote the Fund V Shares.		
	eficially	8.	Shared Voting Power		
	vned by				
	Each porting	9.	See response to row 7. Sole Dispositive Power		
	erson	5.			
,	With		2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general		
			partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to dispose of the Fund V Shares, McGuire, as a managing member of PVM V, may be deemed to have shared power to dispose of the Fund V Shares and Crane, a		
			holder of an assignee interest in PVM V, may be deemed to have shared power to dispose of the Fund V Shares.		
		10.	Shared Dispositive Power		
			See response to row 9.		
11.	Aggrega	ite An	nount Beneficially Owned by Each Reporting Person		
	2,018,450 shares				
12.					
13.	Percent	of Cla	iss Represented by Amount in Row (11)		
	0.50/				
14.	8.5% Type of	Renor	ting Person (See Instructions)		
1 - 4 .					
	IN				

1.	Names of Reporting Persons.				
2	Terrance G. McGuire				
2.	 Check the Appropriate Box if a Member of a Group (See Instructions) (a) □ (b) ⊠ 				
3.	SEC Us	e Only	T		
4.	Source	of Fun	ds (See Instructions)		
	bource)1 1 un			
	AF				
5.	Check if	Discl	losure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
6.	6. Citizenship or Place of Organization				
	USA				
	0011	7.	Sole Voting Power		
			2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344 shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general		
			partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to vote the Fund V Shares, Flint, as a		
Nui	nber of		managing member of PVM V, may be deemed to have shared power to vote the Fund V Shares and Crane, a holder of an assignee interest in PVM V, may be deemed to have shared power to vote the Fund V Shares.		
	hares	8.	Shared Voting Power		
	eficially med by				
1	Each	9.	See response to row 7. Sole Dispositive Power		
	porting erson	5.			
	With		2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to dispose of the Fund V Shares, Flint, as		
			a managing member of PVM V, may be deemed to have shared power to dispose of the Fund V Shares and Crane, a holder of an		
		10	assignee interest in PVM V, may be deemed to have shared power to dispose of the Fund V Shares.		
		10.	Shared Dispositive Power		
			See response to row 9.		
11.	Aggrega	te An	nount Beneficially Owned by Each Reporting Person		
	2,018,45	50 sha	res		
12.					
13.	□ 13. Percent of Class Represented by Amount in Row (11)				
			······································		
1.4	8.5%	Davis	ting Dever (Con Instructions)		
14.	1ype of	керог	ting Person (See Instructions)		
	IN				

1.	Names of Reporting Persons.				
	Alan Crane				
2.	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) 🗆	(b)			
3.	SEC Us	e Only	7		
4.	Source	of Euro	ds (See Instructions)		
4.	Source	JI FUII			
5.	AF Chock is	Dicel	osure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
5.	CHECK I	DISCI	Usure of Legal Proceedings is Required Pursuant to items 2(d) of 2(e)		
6.	6. Citizenship or Place of Organization				
0.	Citizens	mp or			
	USA				
		7.	Sole Voting Power		
			2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to vote the Fund V Shares, Flint, as a		
Nu	mber of		managing member of PVM V, may be deemed to have shared power to vote the Fund V Shares and McGuire, as a managing		
	hares	8.	member of PVM V, may be deemed to have shared power to vote the Fund V Shares. Shared Voting Power		
	eficially /ned by	0.			
	Each		See response to row 7.		
	porting	9.	Sole Dispositive Power		
	erson With		2,018,450 shares, of which 1,947,653 shares are directly owned by PVP V, 37,961 shares are directly owned by PVPE V, 13,344		
			shares are directly owned by PVPFF V and 19,492 shares are directly owned by PVPSFF V, except that PVM V, as the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to have sole power to dispose of the Fund V Shares, Flint, as		
			a managing member of PVM V, may be deemed to have shared power to dispose of the Fund V Shares and McGuire, as a		
			managing member of PVM V, may be deemed to have shared power to dispose of the Fund V Shares.		
		10.	Shared Dispositive Power		
			See response to row 9.		
11.	Aggrega	te An	nount Beneficially Owned by Each Reporting Person		
	2 018 /	0 cha			
12.	2,018,450 shares 2. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
13.	13. Percent of Class Represented by Amount in Row (11)				
		2-4			
14.	8.5% Type of	Repor	ting Person (See Instructions)		
17.	Type of Reporting Lenson (See Instructions)				
	IN				

SCHEDULE 13D

This Amendment No. 1 ("Amendment No. 1") amends and supplements the Schedule 13D originally filed with the Securities and Exchange Commission (the "SEC") on May 14, 2015 (the "Original Schedule 13D", together with the this Amendment No. 1, the "Schedule 13D"), by the Reporting Persons, with respect to shares of Common Stock of the Issuer beneficially owned by the Reporting Persons. This Amendment No. 1 is being filed to report the disposition of Common Stock by the Reporting Persons that resulted from a sale of Common Stock. Except as amended or supplemented in this Amendment No. 1, all other information in the Schedule 13D is as set forth in the Original Schedule 13D. Information given in response to each item shall be deemed incorporated by reference in all other items, as applicable. Capitalized terms used herein but not defined shall have the meanings ascribed thereto in the Schedule 13D.

Item 4. Purpose of Transaction.

Item 4 of the Original Schedule 13D is hereby amended to add the following statements:

In a series of transaction between July 1, 2015 and August 5, 2015, PVP V sold an aggregate of 242,336 shares of Common Stock, PVPE V sold an aggregate of 4,722 shares of Common Stock, PVPFF V sold an aggregate of 1,658 shares of Common Stock and PVPSFF V sold an aggregate of 2,412 shares of Common Stock.

Item 5. Interest in Securities of the Issuer.

Items 5(a) and (c) of the Original Schedule 13D are hereby amended and restated in their entirety as follows:

The information below is based on a total of 23,839,261 shares of Common Stock outstanding as of December 9, 2015 as reported on the Issuer's Form 8-K filed with the SEC on December 9, 2015.

(a) PVP V directly beneficially owns 1,947,653 shares of Common Stock, or approximately 8.2% of the Common Stock outstanding. PVPE V directly beneficially owns 37,961 shares of Common Stock, or approximately 0.2% of the Common Stock outstanding. PVPFF V directly beneficially owns 13,344 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding. PVPSFF V directly beneficially owns 19,492 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding. PVPSFF V directly beneficially owns 19,492 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding. PVP V, PVPFF V and PVPSFF V, may be deemed to indirectly beneficially own the securities owned by PVP V, PVPFF V and PVPSFF V.

(c) Except as described in this statement, none of the Reporting Persons has effected any transactions in the Common Stock in the 60 days prior to the date of this statement.

Item 7. Material to be Filed as Exhibits.

 Exhibit
 Description

 A
 Agreement Regarding the Joint Filing of Schedule 13D

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 16, 2016

POLARIS VENTURE PARTNERS V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

Authorized Signatory

*

*

POLARIS VENTURE PARTNERS ENTREPRENEURS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

POLARIS VENTURE PARTNERS FOUNDERS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

*

*

*

Authorized Signatory

POLARIS VENTURE PARTNERS SPECIAL FOUNDERS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

Authorized Signatory

POLARIS VENTURE MANAGEMENT CO. V, L.L.C.

By:

JONATHAN A. FLINT

By: * Jonathan A. Flint

TERRANCE G. MCGUIRE

By: * Terrance G. McGuire

ALAN CRANE

By: * Alan Crane

*By: /s/ Mary Blair

Name: Mary Blair Attorney-in-Fact

[This Schedule 13D was executed pursuant to a Power of Attorney. Note that copies of the applicable Powers of Attorney are already on file with the appropriate agencies.]

Exhibit A

AGREEMENT REGARDING THE JOINT FILING OF SCHEDULE 13D

The undersigned, being duly authorized thereunto, hereby execute this agreement as an exhibit to this Schedule 13D to evidence the agreement of the belownamed parties, in accordance with the rules promulgated pursuant to the Securities Exchange Act of 1934, to file this Schedule jointly on behalf of each such party.

Date: February 16, 2016

POLARIS VENTURE PARTNERS V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

Authorized Signatory

*

*

POLARIS VENTURE PARTNERS ENTREPRENEURS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

POLARIS VENTURE PARTNERS FOUNDERS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

Authorized Signatory

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POLARIS VENTURE PARTNERS SPECIAL FOUNDERS' FUND V, L.P.

By: Polaris Venture Management Co. V, L.L.C.

By:

Authorized Signatory

POLARIS VENTURE MANAGEMENT CO. V, L.L.C.

By:

JONATHAN A. FLINT

* Jonathan A. Flint

*

TERRANCE G. MCGUIRE

By:

Terrance G. McGuire

ALAN CRANE

By:

* Alan Crane

*By: /s/ Mary Blair

Name: Mary Blair Attorney-in-Fact

[This Schedule 13D was executed pursuant to a Power of Attorney. Note that copies of the applicable Powers of Attorney are already on file with the appropriate agencies.]