UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

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 Attn: Max Eisenberg (855) 787-3500 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, 2018 (Date of Event which Requires Filing of this Statement)

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
because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box: \Box
f 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

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).

CUSII	No. 89	853L	104			
1.	1. Names of Reporting Persons.					
	Polaris Venture Partners V, L.P. ("PVP V")					
2.						
	(a) 🗆	(1				
3.	3. SEC Use Only					
4.	Source	of Fu	ands (See Instructions)			
	WC					
5.		if Dis	closure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e)			
6.		iship (or Place of Organization			
	Delaw	are				
	Belaw	7.	Sole Voting Power			
			1,777,318 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			
	nber of		power to vote these shares, and Terrance G. McGuire ("McGuire"), a managing member of PVM V, may be deemed to have shared power to vote these shares.			
	hares eficially	8.	Shared Voting Power			
	ned by Each		See response to row 7.			
	porting	9.	Sole Dispositive Power			
	erson With					
	WILLI		1,777,318 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, and McGuire, a managing			
			member of PVM V, may be deemed to have shared power to dispose of these shares.			
		10.	Shared Dispositive Power			
			See response to row 9.			
11.	Aggre	gate A	mount Beneficially Owned by Each Reporting Person			
	1,777,3					
12.	Check	if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.	Percen	t of C	lass Represented by Amount in Row (11)			
	4.0%					
14.	Type o	f Rep	orting Person (See Instructions)			
	PN					

CUSII	No. 89	853L1	104			
1.	Names of Reporting Persons.					
	Polaris Venture Partners Entrepreneurs' Fund V, L.P. ("PVPE V")					
2.			ppropriate Box if a Member of a Group (See Instructions)			
	(a) 🗆	(I	b) 🗵			
3.	3. SEC Use Only					
4.	Source	of Fu	ands (See Instructions)			
	WC					
5.		if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
6.		ship (or Place of Organization			
	Delawa	are				
		7.	Sole Voting Power			
			34,640 shares, except that (i) PVM V, the general partner of PVPE V, may be deemed to have sole power to vote these shares, and			
	1 6		(ii) Flint, a managing member of PVM V, may be deemed to have shared power to vote these shares, and McGuire, a managing member			
	nber of hares	8.	of PVM V, may be deemed to have shared power to vote these shares. Shared Voting Power			
	eficially	0.	Shared voling Power			
	ned by Each		See response to row 7.			
	porting	9.	Sole Dispositive Power			
	erson With		34,640 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			
·	VVILLI		(ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, and McGuire, a managing			
		10	member of PVM V, may be deemed to have shared power to dispose of these shares.			
		10.	Shared Dispositive Power			
			See response to Row 9.			
11.	Aggreg	gate A	mount Beneficially Owned by Each Reporting Person			
	34,640 shares					
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)		if the	Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)			
13.						
	0.1%					
14.		f Rep	orting Person (See Instructions)			
	PN					
	111					

CUSI	P No. 89	853 L1	104		
1.	Names of Reporting Persons.				
			ure Partners Founders' Fund V, L.P. ("PVPFF V")		
2.	Check (a) □		ppropriate Box if a Member of a Group (See Instructions) o) ⊠		
3.	SEC Use Only				
4.	Source	of Fu	ands (See Instructions)		
	WC				
5.		if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
6.		ıship (or Place of Organization		
	ъ.				
	Delaw	are 7.	Sole Voting Power		
		7.	Sole voting rower		
			12,178 shares, except that (i) PVM V, the general partner of PVPFF V, may be deemed to have sole power to vote these shares, and		
Nu	mber of		(ii) Flint, a managing member of PVM V, may be deemed to have shared power to vote these shares, and McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares.		
	hares eficially	8.	Shared Voting Power		
	ned by		See response to row 7.		
	Each	9.	Sole Dispositive Power		
	porting erson				
,	With		12,178 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, and McGuire, a managing		
			member of PVM V, may be deemed to have shared power to dispose of these shares.		
		10.	Shared Dispositive Power		
			See response to Row 9.		
11.					
	12,178 shares				
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)					
13. Percent of Class Represented by Amount in Row (11)		lass Represented by Amount in Row (11)			
0.0%					
14. Type of Reporting Person (See Instructions)			orting Person (See Instructions)		
	PN				
	111				

CUSIP N	CUSIP No. 89853L104				
1.	I. Names of Reporting Persons.				
I	Polaris Venture Partners Special Founders' Fund V, L.P. ("PVPSFF V")				
			ppropriate Box if a Member of a Group (See Instructions)		
	(a) □	(1	o) ⊠		
3.	SEC U	se On	ly		
4.	Source	of Fu	inds (See Instructions)		
	WC				
		if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)		
		ship o	or Place of Organization		
	Delawa	aro			
1	Delawa	7.	Sole Voting Power		
			17,788 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, and McGuire, a managing member		
Numb			of PVM V, may be deemed to have shared power to vote these shares.		
Shares Beneficially		8.	Shared Voting Power		
Owne	ed by		See response to row 7.		
Ea Repo		9.	Sole Dispositive Power		
Pers	son		17,788 shares, except that (i) PVM V, the general partner of PVPSFF V, may be deemed to have sole power to dispose of these shares,		
Wi	ıtn		and (ii) Flint, a managing member of PVM V, may be deemed to have shared power to dispose of these shares, and McGuire, a managing		
	-	10.	member of PVM V, may be deemed to have shared power to dispose of these shares. Shared Dispositive Power		
		10.	Shared Dispositive Power		
			See response to row 9.		
11.	. Aggregate Amount Beneficially Owned by Each Reporting Person				
	17,788 shares				
12.	2. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)				
1 -					
13. I	3. Percent of Class Represented by Amount in Row (11)				
	0.0%				
		f Rep	orting Person (See Instructions)		
	PN				

CUSI	P No. 89	853L	104			
1.	1. Names of Reporting Persons.					
	Polaris Venture Management Co. V, L.L.C. ("PVM V")					
2.		the A	ppropriate Box if a Member of a Group (See Instructions)			
	$(a) \ \Box \qquad (b) \ \boxtimes$					
3.	SEC U	se On	lly			
4.	Source	of Fu	ands (See Instructions)			
	A.E.					
5.	AF Check	if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
	Circui	11 210	200mc 01 208m 110cccam80 10 11cquired 1 mount to 11cm0 2 (c) 01 2 (c)			
6.	Citizen	ship (or Place of Organization			
	Delawa	are				
		7.	Sole Voting Power			
			1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares			
			are directly owned by PVPFF V and 17,7788 shares are directly owned by PVPSFF V, except that Flint, a managing member of PVM V			
N.	1		(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,			
	mber of hares	0	and McGuire, a managing member of PVM V, may be deemed to have shared power to vote these shares.			
Ben	eficially	8.	Shared Voting Power			
	ned by		See response to row 7.			
	Each porting	9.	Sole Dispositive Power			
	erson		1.041.034 days of 1.11.1.777.310 days of 1.041.034 days of 1.041.0			
,	With		1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares are directly owned by PVPFF V and 17,788 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, and McGuire, a managing member of PVM V, may be deemed to have shared power to dispose of these shares.			
		10.	Shared Dispositive Power			
			See response to row 9.			
11.	Aggreg	gate A	mount Beneficially Owned by Each Reporting Person			
	1,841,9	124 sł	nares			
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)						
12	12 Provide (Class Provide Associated Provide P					
13. Percent of Class Represented by Amount in Row (11)						
4.2%						
14.	14. Type of Reporting Person (See Instructions)					
	00					
	1 00					

CUSIP	CUSIP No. 89853L104						
1.	1. Names of Reporting Persons.						
	Jonath	an A.	Flint				
2.		the A _l	ppropriate Box if a Member of a Group (See Instructions)				
	(a) □	(t	o) 🗵				
	CEC II		1				
3.	SEC U	se On	ıy				
4.	Source	of Fu	nds (See Instructions)				
	AF						
5.	Check	if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)				
6.	Citizer	iship c	or Place of Organization				
	USA						
	0011	7.	Sole Voting Power				
			1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares				
			are directly owned by PVPFF V and 17,788 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"), and McGuire, as a managing member of PVM V, may be deemed to have shared power to				
	nber of nares		vote the Fund V Shares.				
	ficially	8.	Shared Voting Power				
	ned by						
	lach	0	See response to row 7.				
	orting erson	9.	Sole Dispositive Power				
	Vith		1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares				
			are directly owned by PVPFF V and 17,788 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, 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.	Aggreg	gate A	mount Beneficially Owned by Each Reporting Person				
	000	5					
	1,841,924 shares						
12.	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)						
	4.007						
14.	4.2% 4. Type of Reporting Person (See Instructions)						
14,	4. Type of Keporting Leison (See Instructions)						
	IN						
·1							

CUSIE	No. 89	853L:	104			
1.	Names of Reporting Persons.					
	Terrance G. McGuire					
2.						
	(a) 🗆	(1	b) ⊠			
3. SEC Use Only						
4.	Source	of Fu	ands (See Instructions)			
	4.5					
5.	AF Check	if Dic	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
٥.	CHECK	11 1513	ctosure of Legal 1 foceedings is frequired 1 disdant to frems 2(d) of 2(e)			
6.	Citizer	ıship (or Place of Organization			
	USA					
	USA	7.	Sole Voting Power			
			1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares			
			are directly owned by PVPFF V and 17,788 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, and Flint, as a managing member of			
Nur	nber of		PVM V, may be deemed to have shared power to vote the Fund V Shares.			
	hares	8.	Shared Voting Power			
	eficially ned by					
	Each		See response to row 7.			
	orting	9.	Sole Dispositive Power			
Person With			1,841,924 shares, of which 1,777,318 shares are directly owned by PVP V, 34,640 shares are directly owned by PVPE V, 12,178 shares are directly owned by PVPFF V and 17,788 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, and Flint, 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.	Aggreg	gate A	mount Beneficially Owned by Each Reporting Person			
	00 -0	J	the state of the s			
	1,841,924 shares					
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions)						
13.	Percen	t of C	lass Represented by Amount in Row (11)			
1.4	4.2%					
14.	4. Type of Reporting Person (See Instructions)					
	IN					

CUSII	USIP No. 89853L104					
1.	1. Names of Reporting Persons.					
	Alan Crane					
2.			ppropriate Box if a Member of a Group (See Instructions)			
	(a) 🗆	(t	o) $oxed{\boxtimes}$			
3.	SEC U	se On	ly			
4.	Source	of Fu	nds (See Instructions)			
	AF					
5.	Check	if Dis	closure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e)			
6.	Citizer	iship o	or Place of Organization			
	USA					
		7.	Sole Voting Power			
	nber of		30,000			
	hares eficially	8.	Shared Voting Power			
	ned by		0			
	Each	9.	Sole Dispositive Power			
	porting erson					
	With		30,000			
		10.	Shared Dispositive Power			
			0			
11.	1. Aggregate Amount Beneficially Owned by Each Reporting Person					
	30,000					
12.						
13.	Descript of Class Resource to the Amount in Proceeding					
13.	3. Percent of Class Represented by Amount in Row (11)					
	0.1%					
14.	Type o	f Repo	orting Person (See Instructions)			
	IN					
<u> </u>						

SCHEDULE 13D

This Amendment No. 2 ("Amendment No. 2") amends and supplements the Schedule 13D originally filed with the Securities and Exchange Commission (the "SEC") on May 14, 2015, as amended by Amendment No. 1 filed on February 16, 2016 (the "Original 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. 2 is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than 5% of the class of securities. Except as amended or supplemented in this Amendment No. 2, all other information in the Original 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 Original Schedule 13D.

The following Items of the Original Schedule 13D are hereby amended as follows:

Item 2. Identity and Background.

(c) Flint and McGuire are the managing members of PVM V.

The principal business address of each of the Reporting Persons is c/o Polaris Partners, One Marina Park Drive, 10th Floor, Boston, MA 02210.

Item 5. Interest in Securities of the Issuer.

Items 5(a), (b) 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 44,038,754 shares of Common Stock outstanding as of October 30, 2018 as reported on the Issuer's Quarterly Report on Form 10-Q filed with the SEC on November 1, 2018.

- (a) (b) PVP V directly beneficially owns 1,777,318 shares of Common Stock, or approximately 4.0% of the Common Stock outstanding. PVPE V directly beneficially owns 34,640 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding. PVPFF V directly beneficially owns 12,178 shares of Common Stock, or approximately 0.0% of the Common Stock outstanding. PVPSFF V directly beneficially owns 17,788 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding. PVM V, as the general partner of PVP V, PVPE V, PVPFF V and PVPSFF V, may be deemed to indirectly beneficially own the securities owned by PVP V, PVPE V, PVPFF V and PVPSFF V. Flint and McGuire, as managing members of PVM V, may be deemed to indirectly beneficially own the securities owned by PVP V, PVPE V, PVPFF V and PVPSFF V. Each of PVM V, Flint and McGuire disclaim beneficial ownership of such securities, except to the extent of the respective pecuniary interests therein. In addition, Crane directly owns 30,000 shares of Common Stock, or approximately 0.1% of the Common Stock outstanding.
- (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.
- (e) The Reporting Persons have ceased to be the beneficial owner of more than 5% of the class of securities due to dilution resulting from increases in the total number of shares of Common Stock outstanding.

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 14, 2019

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: *

Authorized Signatory

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: *			
Authorized Signatory			

CUSIP	Ma	000531	104

JONAT:	HAN	IA.	FI	INT

By: <u>*</u>

Jonathan A. Flint

TERRANCE G. MCGUIRE

Bv: *

Terrance G. McGuire

ALAN CRANE

By: /s/ Alan Crane

Alan Crane

*By: /s/ Max Eisenberg

Name: Max Eisenberg

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 14, 2019

POLARIS VENTURE PARTNERS V, L.P.	
By: Polaris Venture Management Co. V, L.L.C.	
By: <u>*</u>	
Authorized Signatory	
POLARIS VENTURE PARTNERS ENTREPRENEURS' FUND V, L.P.	
By: Polaris Venture Management Co. V, L.L.C.	
By: *	
Authorized Signatory	

/s/ Max Eisenberg *By:

Name: Max Eisenberg Attorney-in-Fact

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

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: *
Authorized Signatory
JONATHAN A. FLINT
By: <u>*</u>
Jonathan A. Flint
TERRANCE G. MCGUIRE
By: <u>*</u>
Terrance G. McGuire
ALAN CRANE
By: /s/ Alan Crane
Alan Crane