FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

OMB APPROVAL							
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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

Pfaller Michael A. (1)			Date of Event Requiring Stater Month/Day/Yea 08/06/2014	ment	3. Issuer Name and Ticker or Trading Symbol T2 Biosystems, Inc. [TTOO]							
(Last) 101 HARTWE	(First)	(Middle)	00,00,201		4. Relationship of Reporting Perso (Check all applicable) Director	on(s) to Issue	(Mc	5. If Amendment, Date of Original Filed (Month/Day/Year)				
				X Officer (give title below)	Other (spe		6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) LEXINGTON MA 02421					Chief Medical O	fficer	2	X Form filed by One Reporting Person				
	MA	02421						Form filed by Reporting P	y More than One erson			
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)					Amount of Securities eneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4)		2. Date Exercisable and Expiration Date (Month/Day/Year)		d 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)				
		Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	or Indirect (I) (Instr. 5)					
Stock Option			(1)	04/09/2024	Common Stock	52,941	10.7	D				
Stock Option			(2)	07/19/2024	Common Stock	70,096	10.7	D				

Explanation of Responses:

- 1. This Stock Option was granted on April 9, 2014 and vesting commenced on March 3, 2014. Options to purchase 25% of the total underlying shares vest on the first anniversary of the vesting commencement date and options to purchase the remaining shares vest in 36 equal monthly installments thereafter.
- 2. This Stock Option was granted on July 19, 2014 and vesting commenced on July 15, 2014. Options to purchase 25% of the total underlying shares vest on the first anniversary of the vesting commencement date and options to purchase the remaining shares vest in 36 equal monthly installments thereafter.

Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

/s/ Michael A. Pfaller, M.D. 08/06/2014

** 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 5 (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.

POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS, that the undersigned hereby constitutes and appoints each of (i) the Chief Financial Officer of T2 Biosystems, Inc., a Delaware corporation (the "Company"), who is currently Marc R. Jones, and (ii) the Company's Comptroller, who is currently Christopher Martin, and their respective successors, signing singly, with full power of substitution, as the undersigned's true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of the Company, Forms 3, 4, and 5 and any amendments thereto in accordance with Section 16(a) of the Securities Exchange Act of 1934 and the rules thereunder;
- do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4, or 5, complete and execute any amendment or amendments thereto, and timely file such form with the SEC and any stock exchange or similar authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 1st day of August, 2014.

Signature: /s/ Michael A. Pfaller

Name: Michael A. Pfaller