

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

1. Name and Address of Reporting Person* <u>AISSLING CAPITAL III LP</u> (Last) (First) (Middle) 888 SEVENTH AVENUE, 30TH FLOOR (Street) NEW YORK, NY 10016 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 08/06/2014	3. Issuer Name and Ticker or Trading Symbol <u>T2 Biosystems, Inc. [TTOO]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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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)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Series D Convertible Preferred Stock	(I)	(I)	Common Stock	1,745,313	0.00	I	See footnote ⁽²⁾
Series E Convertible Preferred Stock	(I)	(I)	Common Stock	323,441	0.00	I	See footnote ⁽²⁾

1. Name and Address of Reporting Person*
AISSLING CAPITAL III LP
 (Last) (First) (Middle)
 888 SEVENTH AVENUE, 30TH FLOOR
 (Street)
 NEW YORK, NY 10016
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
Aisling Capital Partners III LP
 (Last) (First) (Middle)
 888 SEVENTH AVENUE, 30TH FLOOR
 (Street)
 NEW YORK, NY 10016
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
Aisling Capital Partners III LLC
 (Last) (First) (Middle)
 888 SEVENTH AVENUE, 30TH FLOOR
 (Street)
 NEW YORK, NY 10016
 (City) (State) (Zip)

1. Name and Address of Reporting Person*

SCHIFF ANDREW N

(Last) (First) (Middle)

888 SEVENTH AVENUE, 30TH FLOOR

(Street)

NEW YORK, NY 10016

(City) (State) (Zip)

1. Name and Address of Reporting Person*

Purcell Dennis J

(Last) (First) (Middle)

888 SEVENTH AVENUE, 30TH FLOOR

(Street)

NEW YORK, NY 10016

(City) (State) (Zip)

1. Name and Address of Reporting Person*

ELMS STEVE

(Last) (First) (Middle)

888 SEVENTH AVENUE, 30TH FLOOR

(Street)

NEW YORK, NY 10016

(City) (State) (Zip)

Explanation of Responses:

- The preferred stock is convertible at any time, at the holder's election and has no expiration date. The preferred stock will automatically convert into common stock upon the closing of the Issuer's initial public offering.
- The reportable securities are owned directly by Aisling Capital III, LP ("Aisling"), and held indirectly by Aisling Capital Partners III, LP ("Aisling GP"), as general partner of Aisling, Aisling Capital Partners III LLC ("Aisling Partners"), as general partner of Aisling GP, and each of the individual managing members of Aisling Partners. The individual managing members (collectively, the "Managers") of Aisling Partners are Dennis Purcell, Dr. Andrew Schiff and Steve Elms. Aisling GP, Aisling Partners and the Managers share voting and dispositive power over the shares directly held by Aisling.

/s/ AISLING CAPITAL III,
L.P. By: Aisling Capital
Partners III, L.P., its General
Partner, By: Aisling Capital 08/06/2014
Partners III, LLC, its General
Partner, By: /s/ Lloyd Appel,
CFO

/s/ AISLING CAPITAL
PARTNERS III, L.P. By:
Aisling Capital Partners III, 08/06/2014
LLC, its General Partner, By:
/s/ Lloyd Appel, CFO

/s/ AISLING CAPITAL
PARTNERS III, LLC By: /s/ 08/06/2014
Lloyd Appel, CFO

/s/ Andrew Schiff 08/06/2014
/s/ Dennis Purcell 08/06/2014
/s/ Steve Elms 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.