UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

SCHEDULE 14A

**Proxy Statement Pursuant to Section 14(a) of the
Securities Exchange Act of 1934 (Amendment No.)**

Filed by the Registrant ☒   Filed by a Party other than the Registrant ☐

Check the appropriate box:

☐   Preliminary Proxy Statement

☐   **Confidential, For Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**

☐   Definitive Proxy Statement

☒   Definitive Additional Materials

☐   Soliciting Material Under Rule 14a-12

T2 Biosystems, Inc.
(Name of Registrant as Specified in Its Charter)

(Name of Person(s) Filing Proxy Statement, if Other Than the Registrant)

Payment of Filing Fee (Check the appropriate box):

☐   No fee required

☐   Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

   (1)   Title of each class of securities to which transaction applies:

   (2)   Aggregate number of securities to which transaction applies:

   (3)   Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

   (4)   Proposed maximum aggregate value of transaction:

   (5)   Total fee paid:

☐   Fee paid previously with preliminary materials.

☐   Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

   (1)   Amount previously paid:

   (2)   Form, Schedule or Registration Statement No.:

   (3)   Filing Party:

(4)   Date Filed:

**SUPPLEMENT TO NOTICE OF 2020 ANNUAL MEETING OF STOCKHOLDERS
AND DEFINITIVE PROXY STATEMENT DATED JUNE 26, 2020**

This proxy statement supplement relates to the 2020 annual meeting (the "2020 Annual Meeting") of stockholders of T2 Biosystems, Inc. (the "Company," "we," or "us") scheduled to be held on August 6, 2020 and supplements and amends the related Definitive Proxy Statement filed with the Securities and Exchange Commission on June 26, 2020 (the "Proxy Statement").

Withdrawal of Proposal 1 to Approve a Series of Seven Separate Amendments to the Company's Restated Certificate of Incorporation, to effect a Reverse Stock Split of the Company's Common Stock

The Company announced on August 5, 2020, that its Board of Directors (the "Board") has decided it will not seek authority from the stockholders at the 2020 Annual Meeting to effect a reverse split of its issued and outstanding shares of common stock and, accordingly, Proposal 1 in the Proxy Statement for such authority has been withdrawn from the agenda for the Annual Meeting. Proposal No. 1, as set forth in the Proxy Statement, requested stockholder approval of a series of seven separate amendments to the Company's Restated Certificate of Incorporation to effect a reverse stock split of the Company's common stock at ratios of one-for-five up top one-for-eleven, such ratio to be determined by the Board, subject to the Board's authority to abandon such amendment.

In making its decision, the Board took into account the trading history of the Company's shares, its current compliance with listing requirements of The Nasdaq Global Market and the results of meetings with representatives of various investment banks, investment funds, individual investors, and other members of the investment community when it concluded that the market for the Company's common stock (per-share market pricing and liquidity), investor interest, and our financing and capital-raising abilities were satisfactory at this time and might not be materially enhanced if our stockholders were to provide the reverse split authority initially sought by Proposal 1.

No additional changes have been made to the Proxy Statement or the record date, the location of the meeting or the proposals to be brought before the 2020 Annual Meeting, which are presented in the Proxy Statement.