

**T2 Biosystems, Inc.**  
**101 Hartwell Avenue**  
**Lexington, MA 02421**

September 11, 2023

**VIA EDGAR**

U.S. Securities and Exchange Commission  
Division of Corporation Finance  
100 F Street, N.E.  
Washington, D.C. 20549

**Re: T2 Biosystems, Inc.**  
**Registration Statement on Form S-3**  
**File No. 333-274182**

To the addressee set forth above:

Pursuant to Rule 461 of Regulation C of the General Rules and Regulations under the Securities Act of 1933, as amended, the undersigned, on behalf of T2 Biosystems, Inc., respectfully requests that the effective date of the Registration Statement on Form S-3 referred to above be accelerated so that it will become effective at 4:30 P.M. Eastern Time on September 12, 2023, or as soon as practicable thereafter.

If you have any questions or require additional information, please contact N. Danny Shulman, Esq. of Latham & Watkins LLP at (212) 906-4510, or in his absence, Evan G. Smith, Esq. of Latham & Watkins LLP at (617) 948-6089. Thank you for your assistance and cooperation in this matter.

Very truly yours,

T2 BIOSYSTEMS, INC.

By: /s/ Michael T. Gibbs  
Michael T. Gibbs  
General Counsel

cc: Evan G. Smith, Latham & Watkins LLP  
N. Danny Shulman, Latham & Watkins LLP