

**CAN-FITE BIOPHARMA LTD.**  
**10 Bareket Street,**  
**Kiryat Matalon**  
**PO Box 7537**  
**Petach Tikva, 4951778**  
**Israel**

January 29, 2016

**VIA EDGAR**

Division of Corporation Finance  
Securities and Exchange Commission  
100 F Street, N.E.  
Washington, D.C. 20549  
Attention: Alla Berenshteyn

**R e Can-Fite BioPharma Ltd.**  
**Registration Statement on Form F-3 Filed January 19, 2016**  
**File No. 333-209037**

Ladies and Gentlemen:

Pursuant to Rule 461 of the General Rules and Regulations under the Securities Act of 1933, as amended, Can-Fite BioPharma Ltd. (the "Company") respectfully requests that the effective date of the registration statement referred to above be accelerated so that it will become effective at 4:30 p.m., Eastern Time, on January 29, 2016, or as soon thereafter as possible.

The Company hereby acknowledges the following:

- should the Securities and Exchange Commission (the "Commission") or the staff, acting pursuant to delegated authority, declare the Registration Statement effective, it does not foreclose the Commission from taking any action with respect to the Registration Statement;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the Registration Statement effective, does not relieve the Company from its full responsibility for the adequacy and accuracy of the disclosure in the Registration Statement; and
- the Company may not assert staff comments and the declaration of effectiveness of this Registration Statement as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

**CAN-FITE BIOPHARMA LTD.**

By: /s/ Motti Farbstein  
Name: Motti Farbstein  
Title: Chief Operating and Financial Officer