UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

Report of Foreign Private Issuer Pursuant to Rule 13a-16 or 15d-16 Under the Securities Exchange Act of 1934

For the Month of January 2019

001-36203 (Commission File Number)

CAN-FITE BIOPHARMA LTD.

(Exact name of Registrant as specified in its charter)

10 Bareket Street Kiryat Matalon, P.O. Box 7537 Petach-Tikva 4951778, Israel (Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F \boxtimes Form 40-F \square

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): ____

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): _____

This Report on Form 6-K (including exhibits thereto) is hereby incorporated by reference into the registrant's Registration Statements on Form F-3 (File Nos. 333-195124, 333-199033, 333-204795, 333-209037 and 333-220644), to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

On January 24, 2019, Can-Fite BioPharma Ltd. (the "Company") announced that it will hold a Special Meeting of Shareholders on March 4, 2019 at 4:00 P.M. (Israel time) at the Company's offices in Petach-Tikva, Israel. In connection with the meeting, the Company furnishes the following documents:

- 1. A copy of the Notice and Proxy Statement with respect to the Company's Special Meeting of Shareholders describing the proposal to be voted upon at the meeting, the procedure for voting in person or by proxy at the meeting and various other details related to the meeting, attached hereto as Exhibit 99.1;
- 2. A form of Proxy Card whereby holders of ordinary shares of the Company may vote at the meeting without attending in person, attached hereto as Exhibit 99.2; and
- 3. A form of Voting Instruction Card whereby holders of American Depositary Shares of the Company may vote at the meeting without attending in person, attached hereto as Exhibit 99.3.

Exhibit Index

| Exhibit No. | Description | | |
|-------------|--|--|--|
| | | | |
| 99.1 | Notice and Proxy Statement with respect to the Company's Special Meeting of Shareholders | | |
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| 99.2 | Proxy Card for holders of ordinary shares with respect to the Company's Special Meeting of Shareholders | | |
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| 99.3 | Voting Instruction Card for American Depositary Share holders with respect to the Company's Special Meeting of | | |
| | Shareholders | | |
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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Date: January 24, 2019

Can-Fite BioPharma Ltd.

By: <u>/s/ Pnina Fishman</u>

Pnina Fishman Chief Executive Officer



NOTICE OF SPECIAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON MARCH 4, 2019

To the shareholders and ADS holders of Can-Fite BioPharma Ltd. (the "Company"):

Notice is hereby given that a Special Meeting of Shareholders will be held on Monday, March 4, 2019, at 4:00 P.M. Israel time at our offices, 10 Bareket Street, Petach-Tikva, Israel.

The agenda of the special meeting will be to approve a grant of options to Pnina Fishman, the Company's Chief Executive Officer and director.

Only shareholders and holders of American Depositary Shares at the close of business on February 4, 2019 (the "Record Date") are entitled to notice of, and to vote at, the special meeting and any adjournment or postponement thereof. You are cordially invited to attend the special meeting in person.

If you are unable to attend the special meeting in person, you are requested to complete, date and sign the enclosed proxy and to return it promptly in the pre-addressed envelope provided. Shareholders who attend the special meeting may revoke their proxies and vote their shares in person.

Beneficial owners who hold ordinary shares through members of the Tel Aviv Stock Exchange, or the TASE, may either vote their shares in person at the special meeting by presenting a certificate signed by the TASE Clearing House member through which the shares or are held, which complies with the Israel Companies Regulations (Proof of Ownership for Voting in General Meetings)-2000 as proof of ownership of the shares on the Record Date, or send such certificate along with a duly executed proxy (in the form filed by us on MAGNA, the distribution site of the Israeli Securities Authority, at www.magna.isa.gov.il), to us at 10 Bareket Street, Kiryat Matalon, PO Box 7537, Petach-Tikva, 4951778, Israel Attention: Chief Financial Officer.

By Order of the Board of Directors

| Ilan Cohn | |
|-----------------------|---|
| Chairman of the Board | l |
| January 24, 2019 | |



10 Bareket Street, Kiryat Matalon PO Box 7537 Petach-Tikva 4951778 Israel

PROXY STATEMENT

FOR SPECIAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON MARCH 4, 2019

This Proxy Statement is furnished to our holders of ordinary shares, par value NIS 0.25 per share, including holders of our ordinary shares that are represented by American Depository Shares, or ADSs, in connection with the Special General Meeting of Shareholders, to be held on Monday, March 4, 2019, at 4:00 P.M. Israel time at our offices, 10 Bareket Street, Petach-Tikva, Israel, or at any adjournments thereof.

Throughout this Proxy Statement, we use terms such as "Can-Fite", "we", "us", "our" and the "Company" to refer to Can-Fite BioPharma Ltd. and terms such as "you" and "your" to refer to our shareholders and ADS holders.

Agenda Items

The agenda of the special meeting will be to approve a grant of options to Pnina Fishman, the Company's Chief Executive Officer and director.

We currently are unaware of any other matters that may be raised at the special meeting. Should any other matters be properly raised at the special meeting, the persons designated as proxies shall vote according to their own judgment on those matters.

Board Recommendation

Our board of directors unanimously recommends that you vote "FOR" the proposal

Who Can Vote

Only shareholders and ADS holders at the close of business on February 4, 2019, shall be entitled to receive notice of and to vote at the special meeting.

How You Can Vote

You can vote your ordinary shares by attending the special meeting. If you do not plan to attend the special meeting, the method of voting will differ for shares held as a record holder, shares held in "street name" (through a Tel Aviv Stock Exchange, or TASE, member) and shares underlying ADSs that you hold. Record holders of shares will receive proxy cards. Holders of shares in "street name" through a TASE member will also vote via a proxy card, but through a different procedure (as described below). Holders of ADSs (whether registered in their name or in "street name") will receive voting instruction cards in order to instruct their banks, brokers or other nominees on how to vote.



Shareholders Holders of Record

If you are a shareholder holder of record, you can submit your vote by completing, signing and submitting an applicable proxy card, which has been published at <u>www.magna.isa.gov.il</u> and <u>www.maya.tase.co.il</u> and which will be accessible at the "Investor Information" portion of our website, as described below under "Shareholder Meetings".

Please follow the instructions on the applicable proxy card.

Shareholders Holding in "Street Name," Through the TASE

If you hold ordinary shares in "street name," that is, through a bank, broker or other nominee that is admitted as a member of the TASE, your shares will only be voted if you provide instructions to the bank, broker or other nominee as to how to vote, or if you attend the special meeting in person.

If voting by mail, you must sign and date an applicable proxy card in the form filed by us on MAGNA on or around March 1, 2019 and attach to it a certificate signed by the TASE Clearing House member through which the shares are held, which complies with the Israel Companies Regulations (Proof of Ownership for Voting in General Meetings)-2000 as proof of ownership of the shares, as applicable, on the Record Date, and return the applicable proxy card, along with the proof of ownership certificate, to us, as described in the instructions available on MAGNA.

If you choose to attend the special meeting (where ballots will be provided), you must bring the proof of ownership certificate from the TASE's Clearing House member through which the shares are held, indicating that you were the beneficial owner of the shares, as applicable, on the Record Date.

Holders of ADSs

Under the terms of the Deposit Agreement between the Company, The Bank of New York Mellon, as depositary, or BNY Mellon, and the holders of our ADSs, BNY Mellon shall endeavor (insofar as is practicable) to vote or cause to be voted the number of shares represented by ADSs in accordance with the instructions provided by the holders of ADSs to BNY Mellon. For ADSs that are held in "street name", through a bank, broker or other nominee, the voting process will be based on the underlying beneficial holder of the ADSs directing the bank, broker or other nominee to arrange for BNY Mellon to vote the ordinary shares represented by the ADSs in accordance with the beneficial holder's voting instructions. If no instructions are received by BNY Mellon from any holder of ADSs (whether held directly by a beneficial holder or in "street name") with respect to any of the shares represented by the ADSs on or before the date established by BNY Mellon for such purpose, BNY Mellon shall not vote or attempt to vote the shares represented by such ADSs.

Multiple Record Holders or Accounts

You may receive more than one set of voting materials, including multiple copies of this document and multiple proxy cards or voting instruction cards. For example, shareholders who hold ADSs in more than one brokerage account will receive a separate voting instruction card for each brokerage account in which ADSs are held. Shareholders of record whose shares are registered in more than one name will receive more than one proxy card. You should complete, sign, date and return each proxy card and voting instruction card you receive.

Our board of directors urges you to vote your shares so that they will be counted at the special meeting or at any postponements or adjournments of the special meeting.

Solicitation of Proxies

By appointing "proxies," shareholders and ADS holders may vote at the special meeting whether or not they attend. If a properly executed proxy in the attached form is received by us at least 48 hours prior to the special meeting (and received by BNY Mellon no later than the date indicated on the voting instruction card, in the case of ADS holders), all of the shares represented by the proxy shall be voted as indicated on the form or, if no preference is noted, shall be voted in favor of the matter described above, and in such manner as the holder of the proxy may determine with respect to any other business as may come before the special meeting or any adjournment thereof. Shareholders and ADS holders may revoke their proxies at any time before the deadline for receipt of proxies by filing with us (in the case of holders of ordinary shares) or with BNY Mellon (in the case of holders of ADSs), a written notice of revocation or duly executed proxy bearing a later date.

Proxies are being distributed to shareholders and ADS holders on or about January 24, 2019. Certain officers, directors, employees, and agents of ours, none of whom will receive additional compensation therefor, may solicit proxies by telephone, emails, or other personal contact. We will bear the cost for the solicitation of the proxies, including postage, printing, and handling, and will reimburse the reasonable expenses of brokerage firms and others for forwarding material to beneficial owners of shares and ADSs.

To the extent you would like to submit a position statement with respect to the proposal described in this proxy statement pursuant to the Companies Law, you may do so by delivery of appropriate notice to the our offices (Attention: Chief Financial Officer) located at 10 Bareket Street, Kiryat Matalon, PO Box 7537, Petach-Tikva 4951778, Israel, not later than ten days before the special meeting (i.e., February 22, 2019). Response of the Board to the position statement may be submitted not later than five days after the deadline for sending the position statement (i.e., February 27, 2019).

Quorum

At the close of business on January 24, 2019, we had outstanding 44,875,482 ordinary shares. Each ordinary share (including ordinary shares represented by ADSs) outstanding as of the close of business on the Record Date is entitled to one vote upon each of the matters to be voted on at the special meeting.

Under our articles of association, the special meeting will be properly convened if at least two shareholders attend the meeting in person or sign and return proxies, provided that they hold shares representing at least 25% of our voting power. If such quorum is not present within half an hour from the time scheduled for the meeting, the meeting will be adjourned for one week (to the same day, time and place), or to later date if so specified in the notice of the meeting. At the reconvened meeting, if there is no quorum within half an hour from the time scheduled for the meeting, any number of our shareholders present in person or by proxy shall constitute a lawful quorum.

Vote Required

The approval of the proposal is subject to the affirmative vote of the holders of a majority of the voting power represented and voting on this proposal in person or by proxy. In addition, the shareholders' approval must *either* include at least a majority of the ordinary shares voted by shareholders who are not controlling shareholders nor are they shareholders who have a personal interest in the election of the external director (excluding a personal interest that is not related to a relationship with the controlling shareholders), *or* the total ordinary shares of non-controlling shareholders and non-interested shareholders voted against this proposal must not represent more than 2% of the outstanding ordinary shares.

Under the Israeli Companies Law, in general, you will be deemed to be a controlling shareholder if you have the power to direct our activities, otherwise than by reason of being a director or other office holder of ours, and you are deemed to have a personal interest if any member of your immediate family or their spouse has a personal interest in the adoption of the proposal. In addition, you are deemed to have a personal interest if a company, other than Can-Fite, that is affiliated to you has a personal interest in the adoption of the proposal. Such company is a company in which you or a member of your immediate family serves as a director or chief executive officer, has the right to appoint a director or the chief executive officer, or owns 5% or more of the outstanding shares. However, you are not deemed to have a personal interest in the adoption of the proposal if your interest in such proposal arises solely from your ownership of our shares, or to a matter that is not related to a relationship with a controlling shareholder.

In the proxy card attached to the proxy statement you will be asked to indicate whether you have a personal interest with respect the proposal. If any shareholder casting a vote in connection hereto does not notify us whether or not they have a personal interest with respect to the proposal, their vote with respect to the proposal will be disqualified.

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If you provide specific instructions (mark boxes) with regard to the proposal, your shares will be voted as you instruct. If you sign and return your proxy card or voting instruction form without giving specific instructions, your shares will be voted in accordance with the recommendations of our Board of Directors. The proxy holders will vote in their discretion on any other matters that properly come before the meeting.

If you are a shareholder of record and do not return your proxy card, your shares will not be voted. If you hold shares (or ADSs representing shares) beneficially in street name, your shares will also not be voted at the meeting if you do not return your proxy card or voting instruction card to instruct your broker or BNY Mellon how to vote. A broker (and BNY Mellon) may only vote in accordance with instructions from a beneficial owner of shares or ADSs.

Availability of Proxy Materials

Copies of the applicable proxy card and voting instruction card, the Notice of the Special General Meeting and this Proxy Statement are available at the "Investor Information" portion of our website, <u>www.canfite.com</u>. The contents of that website are not a part of this Proxy Statement.

Reporting Requirements

We are subject to the information reporting requirements of the Securities Exchange Act of 1934, as amended, or Exchange Act, applicable to foreign private issuers. We fulfill these requirements by filing reports with the Securities and Exchange Commission, or Commission. Our filings with the Commission may be inspected without charge at the Commission's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Information on the operation of the Public Reference Room can be obtained by calling the Commission at 1-800-SEC-0330. Our filings are also available to the public on the Commission's website at http://www.sec.gov.

As a foreign private issuer, we are exempt from the rules under the Exchange Act related to the furnishing and content of proxy statements. The circulation of this notice and proxy statement should not be taken as an admission that we are subject to the proxy rules under the Exchange Act.

GRANT OF OPTIONS TO CHIEF EXECUTIVE OFFICER

Background

On January 7, 2019, the Company's Compensation Committee and board of directors approved the grant, subject to shareholder approval, to Dr. Pnina Fishman of 400,000 options to purchase 400,000 ordinary shares of the Company. The options will be issued under the following terms: (i) the exercise price per each such option shall be an exercise price equal to the average price of the Company's ordinary shares on the Tel Aviv Stock Exchange in the 30 trading days before the issuance; and (ii) such options shall vest on a quarterly basis over four years such that 25,000 options shall vest at the end of each calendar quarter and that the options shall be granted in accordance with the Company's 2013 Share Option Plan.

Proposed Resolution

It is therefore proposed that the following resolution be adopted at the meeting:

"RESOLVED, to grant an aggregate number of 400,000 options to purchase 400,000 ordinary shares to Pnina Fishman upon the terms described above."

YOU SHOULD RELY ONLY ON THE INFORMATION CONTAINED IN THIS PROXY STATEMENT OR THE INFORMATION FURNISHED TO YOU IN CONNECTION WITH THIS PROXY STATEMENT WHEN VOTING ON THE MATTERS SUBMITTED TO SHAREHOLDER AND ADS HOLDERS VOTE HEREUNDER. WE HAVE NOT AUTHORIZED ANYONE TO PROVIDE YOU WITH INFORMATION THAT IS DIFFERENT FROM WHAT IS CONTAINED IN THIS DOCUMENT. THIS PROXY STATEMENT IS DATED JANUARY 24, 2019. YOU SHOULD NOT ASSUME THAT THE INFORMATION CONTAINED IN THIS DOCUMENT IS ACCURATE AS OF ANY DATE OTHER THAN JANUARY 24, 2019, AND THE MAILING OF THIS DOCUMENT TO SHAREHOLDERS AND ADS HOLDERS SHOULD NOT CREATE ANY IMPLICATION TO THE CONTRARY.

OTHER BUSINESS

Other than as set forth above, as of the mailing of this Proxy Statement, management knows of no business to be transacted at the special meeting, but, if any other matters are properly presented at the special meeting, the persons named in the enclosed form of proxy will vote upon such matters in accordance with their best judgment.

By Order of the Board of Directors

Ilan Cohn

Chairman of the Board Dated: January 24, 2019

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CAN-FITE BIOPHARMA LTD.

PROXY FOR THE SPECIAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON MARCH 4, 2019

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS.

The undersigned hereby appoints Ilan Cohn, Chairman of the Board and Dr. Pnina Fishman, Chief Executive Officer and each of them, attorneys, agents and proxies of the undersigned, with full power of substitution to each of them, to represent and to vote on behalf of the undersigned all the ordinary shares in Can-Fite BioPharma Ltd. (the "Company") which the undersigned is entitled to vote at the Special General Meeting of Shareholders (the "Special Meeting") to be held at the offices of the Company, 10 Bareket Street, Petach Tikva, Israel, on **Monday, March 4, 2019** at 4:00 P.M. (Israel time), and at any adjournments or postponements thereof, upon the following matters, which are more fully described in the Notice of Special General Meeting of Shareholders (the "Notice") and Proxy Statement relating to the Special Meeting ("Proxy Statement").

The undersigned acknowledges receipt of the Notice and Proxy Statement of the Company relating to the Special Meeting. All terms that are not defined in this Proxy shall have the same meaning of such terms in the Notice and/or the Proxy Statement.

This Proxy, when properly executed, will be voted in the manner directed herein by the undersigned. If no direction is made with respect to any matter, this Proxy will be voted FOR such matter. Any and all proxies heretofore given by the undersigned are hereby revoked.

(Continued and to be signed on the reverse side)

SPECIAL GENERAL MEETING OF SHAREHOLDERS OF CAN-FITE BIOPHARMA LTD.

March 4, 2019, 4:00 P.M. (Israel time)

Please date, sign and mail your proxy card in the envelope provided as soon as possible.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" EACH OF THE PROPOSALS FOR THE MEETING

PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE ⊠

1. To approve a grant of options to Pnina Fishman, the Company's Chief Executive Officer and director.

□ FOR □ AGAINST □ ABSTAIN

Are you a controlling shareholder in the Company, or have a personal interest in the said Proposal, as such terms are defined in the Proxy Statement of the Company? Please note: If you do not mark either Yes or No, your shares will not be voted for this Proposal.

 \Box YES \Box NO

In their discretion, the proxies are authorized to vote upon such other matters as may properly come before the Special Meeting or any adjournment or postponement thereof.

| NAME | SIGNATURE | , 2019 DATE |
|------|-----------|----------------|
| NAME | SIGNATURE | , 2019 |

Please sign exactly as your name appears on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, trustee or guardian, please give full title as such. If the signed is a corporation, please sign full corporate name by duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by authorized person.

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| Special General Meeting of Shareholders of | Special General Meeting of Shareholders of |
| Can-Fite BioPharma Ltd. | Can-Fite BioPharma Ltd. |
| Date: March 4, 2019 See Voling Instructions On Reverse Side. | to be held March 4, 2019 |
| See voning insulicuons on veverae side. Nease make your marks like this: 🗵 Use pen only | For Holders as of February 4, 2019 |
| ana dia mandri ang | ¢ |
| For Againez Absealm | 😵 MAIL |
| Company's Chief Executive Officer and director. | Mark, sign and date your Voting Instruction Form. |
| Are you a controlling shareholder in the Company, or have a personal interest in the said Proposel, as such terms are defined in the Proxy Statement of the Company? These notes if you do not mark either Yes or | Detech your Voting Instruction Form. Return your Voting Instruction Form in the postage-paid enrelope provided. |
| No, your shares will not be voted for this Proposal. | a te |
| | Mark, sign and date your Voting Instruction Form. • Datesh your Voting Instruction Form in the postage-paid envelope provided. All votes must be received by 12:00 p.m. EST on February 25, 2019. PROXY TABULATOR FOR CAN-FITE BIOPHARMA LTD. P.O. BOX 8016 CARY, NC 27512-9903 |
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| | PROXY TABULATOR FOR |
| | CAN-FITE BIOPHARMA LTD. P.O. BOX 8016 |
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| completed for your instructions to be executed. | |
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| Please Bign Here Please Date Above | |
| Please Bign Here Please Date Above | Copyright @ 2019 Mediam Communications Inc. All Fights Reserved. |
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Can-Fite BioPharma Ltd.

Instructions to The Bank of New York Mellon, as Depositary (Must be received prior to 12:00 p.m. EST on February 25, 2019)

(Must be received prior to 12:00 p.m. EST on February 25, 2019) The undersigned registered owner of American Depositary Shares hereby requests and instructs The Bank of New York Mellon, as Depositary, to endeavor, in so far as practicable, to vote or cause to be voted the amount of Shares or other Deposited Securities represented by such Shares of Can-Fite BioPharma Ltd. registered in the name of the undersigned on the books of the Depositary as of the close of business on February 4, 2019 at the Special General Meeting of the Shareholders of Can-Fite BioPharma Ltd. to be held at the offices of the Company, 10 Bareket Street, Petach Tikva, Israel, on Monday, March 4, 2019 at 4:00 p.m. (Israel time) or any postponement or adjournment thereof in respect of the resolutions specified on the reverse.

THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" EACH OF THE PROPOSALS AT THE MEETING

NOTE:
NOTE:
Please direct the Depositary how it is to vote by placing an "X" in the appropriate box opposite each agenda item. It is understood that, if this form is eigned and returned but no instructions are indicated in the boxes, then a discretionary proxy will be given to a person designated by the Compary.
If no voting instructions are received by the Depositary from a Hokker (either because no voting instructions are received by a Hoker or because the voting instructions are incomplete, lilegible, or unclear, the depositary shall have no obligation to, and shall not, exercise any voting rights attaching to such Deposited Shares.

(Continued and to be marked, dated and signed, on the other side)

PROKY TABLLATOR FOR Can-Fae BioPharma Ltd. P.O. Box sone CARY, NC 27512-5003

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