
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 November 2016

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 Form 40-F

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333-204795, and 333-209037), to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.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 November 21, 2016, Can-Fite BioPharma Ltd. (the “Company”) announced that it will hold its Annual General Meeting of Shareholders on December 26, 2016 at 10.00 a.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 Annual General Meeting of Shareholders describing the proposals 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 Annual General Meeting of Shareholders
99.2	Proxy Card for holders of ordinary shares with respect to the Company's Annual General Meeting of Shareholders
99.3	Voting Instruction Card for American Depositary Share holders with respect to the Company's Annual General Meeting of Shareholders

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.

Can-Fite BioPharma Ltd.

Date: November 21, 2016

By: /s/ Pnina Fishman
Pnina Fishman
Chief Executive Officer



**NOTICE OF
2016 ANNUAL GENERAL MEETING OF SHAREHOLDERS
TO BE HELD ON DECEMBER 26, 2016**

To the shareholders of Can-Fite BioPharma Ltd.:

Notice is hereby given that the 2016 Annual General Meeting of Shareholders will be held on Monday, December 26, 2016, at 10:00 a.m. Israel time at our offices, 10 Bareket Street, Petach Tikva, Israel.

The agenda of the annual meeting will be as follows:

1. To re-elect Pnina Fishman, Ilan Cohen, Abraham Sartani and Guy Regev to our Board of Directors, each for a term expiring at our next annual general meeting of shareholders (a separate vote for each director will be taken).
2. To approve the re-appointment of Kost Forer Gabbay & Kasierer, registered public accounting firm, a member firm of Ernst & Young Global, as our independent registered public accounting firm for the year ending December 31, 2016 and until our next annual general meeting of shareholders, and to authorize our audit committee to fix such accounting firm's annual compensation.
3. To discuss the auditor's report of our independent registered public accounting firm and audited financial statements for the year ended December 31, 2015 and to transact such other business as may properly come before the meeting.

Only shareholders and holders of ordinary shares represented by American Depositary Shares at the close of business on November 28, 2016 are entitled to notice of, and to vote at, the annual meeting and any adjournment or postponement thereof. You are cordially invited to attend the annual meeting in person.

If you are unable to attend the annual 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 annual 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 annual meeting by presenting 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 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 Cohen

Chairman of the Board
November 21, 2016



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

PROXY STATEMENT

**FOR ANNUAL GENERAL MEETING OF SHAREHOLDERS
TO BE HELD ON DECEMBER 26, 2016**

This Proxy Statement is furnished to our holders of ordinary shares, par value NIS 0.25 per share and holders of our ordinary shares that are represented by American Depositary Shares, or ADSs, in connection with the 2016 Annual General Meeting of Shareholders, to be held on Monday, December 26, 2016, at 10:00a.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 annual meeting will be as follows:

1. To re-elect Pnina Fishman to our Board of Directors for a term expiring at our next annual general meeting of shareholders.
2. To re-elect Ilan Cohn to our Board of Directors for a term expiring at our next annual general meeting of shareholders.
3. To re-elect Avraham Sartani to our Board of Directors for a term expiring at our next annual general meeting of shareholders.
4. To re-elect Guy Regev to our Board of Directors for a term expiring at our next annual general meeting of shareholders.
5. To approve the re-appointment of Kost Forer Gabbay & Kasierer, registered public accounting firm, a member firm of Ernst & Young Global, as our independent registered public accounting firm for the year ending December 31, 2016 and until our next annual general meeting of shareholders, and to authorize our audit committee to fix such accounting firm’s annual compensation.

6. To discuss the auditor's report of our independent registered public accounting firm and audited financial statements for the year ended December 31, 2015 and to transact such other business as may properly come before the meeting.

We currently are unaware of any other matters that may be raised at the annual meeting. Should any other matters be properly raised at the annual 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" each of Proposals 1, 2, 3, 4, and 5.

Who Can Vote

Only shareholders and ADS holders at the close of business on November 28, 2016 shall be entitled to receive notice of and to vote at the annual meeting.

How You Can Vote

You can vote your ordinary shares by attending the annual meeting. If you do not plan to attend the annual 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 of Record

If you are a shareholder of record, you can submit your vote by completing, signing and submitting a proxy card, which has been published at www.magna.isa.gov.il and www.maya.tase.co.il 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 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 annual meeting in person.

If voting by mail, you must sign and date a proxy card in the form filed by us on MAGNA on November 21, 2016 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 on the record date, and return the 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 annual 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 on the record date.

Holder 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 Shareholders 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 annual meeting or at any postponements or adjournments of the annual meeting.

Solicitation of Proxies

By appointing “proxies”, shareholders and ADS holders may vote at the annual 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 annual 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 annual 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 November 28, 2016. 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 any of proposals described in this proxy statement pursuant to the Israeli 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 convening of the annual meeting (i.e., December, 16, 2016). 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., December 21, 2016).

Quorum

At the close of business on November 17, 2016, we had outstanding 27,709,901 ordinary shares, of which 8,620,599 were represented by ADSs. The foregoing number of outstanding ordinary shares excludes 446,827 ordinary shares that are held in treasury and have no voting rights. 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 annual meeting.

Under our articles of association, the annual 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 for Each Proposal

Each of the resolutions to be presented at the annual meeting requires the affirmative vote of holders of at least a majority of the ordinary shares voted in person or by proxy at the Meeting on the matter presented for passage.

If you provide specific instructions (mark boxes) with regard to certain proposals, 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. This will be true even for a routine matter, such as Proposal 5 (the approval of the re-appointment of our independent registered public accounting firm and authorization of our audit committee to fix such accounting firm's annual compensation), as your broker and BNY Mellon will not be permitted to vote your shares in their discretion on any proposal at the meeting. For all proposals, 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 proxy card and voting instruction card, the Notice of the Annual Meeting and this Proxy Statement are available at the "Investor Information" portion of our website, www.canfite.com. 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 Securities Exchange Act, or Exchange Act of 1934, as amended, 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.

SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT

The following table sets forth information regarding the beneficial ownership of our outstanding ordinary shares as of November 21, 2016 by the members of our senior management, and board of directors, individually and as a group, and each person who we know beneficially owns 5% or more of our outstanding ordinary shares. The beneficial ownership of ordinary shares is based on the 27,709,901 ordinary shares outstanding as of November 21, 2016 (which excludes 446,827 ordinary shares held in treasury) and is determined in accordance with the rules of the Commission and generally includes any ordinary shares over which a person exercises sole or shared voting or investment power. For purposes of the table below, we deem shares subject to options or warrants that are currently exercisable or exercisable within 60 days of November 21, 2016, to be outstanding and to be beneficially owned by the person holding the options or warrants for the purposes of computing the percentage ownership of that person but we do not treat them as outstanding for the purpose of computing the percentage ownership of any other person.

Name of Beneficial Owner	Number of Ordinary Shares	Percentage of Class*
Senior Management		
Ilan Cohn, PhD. <i>Chairman of the Board</i>	214,852(1)	*%
Pnina Fishman, PhD. <i>Chief Executive Officer and Director</i>	437,305(2)	1.6%
Motti Farbstein <i>Chief Operating Officer</i>	46,683(3)	*%
Guy Regev <i>Director</i>	54,240(4)	*%
Abraham Sartani, Ph.D. <i>Director</i>	4,000(5)	*%
Gil Oren <i>Director</i>	8,333(6)	*%
Israel Shamay <i>Director</i>	-	-
Directors and Executive Officers as a group (7 persons)	765,413	2.8%

* Denotes less than 1%

- (1) Represents (i) 133,567 ordinary shares, and (ii) 2,032,136 unregistered options to purchase 81,285 ordinary shares at an exercise price of NIS 1.247 per option and expire on March 20, 2017. All such warrants and options are fully vested.
- (2) Represents (i) 263,433 ordinary shares, (ii) 2,680,000 unregistered options to purchase 107,200 ordinary shares at an exercise price of NIS 0.644 per option and expire on January 13, 2021 and (iii) 66,672 unregistered options to purchase 66,672 ordinary shares at an exercise price of NIS 3.573 per option and expire on October 22, 2025. Excludes 133,328 unregistered options to purchase 133,328 ordinary shares that vest in more than 60 days from November 21, 2016.
- (3) Includes (i) 1,133 ordinary shares, (ii) 748,137 unregistered options to purchase 29,925 ordinary shares, of which (1) 554,387 are exercisable into 22,175 ordinary shares at an exercise price of NIS 0.307 per option and expire on November 26, 2018, (2) 100,000 are exercisable into 4,000 ordinary shares at an exercise price of NIS 0.385 per option and expire on May 2, 2022, and (3) 93,750 are exercisable into 3,750 ordinary shares at an exercise price of NIS 0.326 per option and expire on March 20, 2023, (iii) 4,375 unregistered options to purchase 4,375 ordinary shares at an exercise price of NIS 8.1205 per option and expire on March 18, 2025, and (iv) 11,250 unregistered options to purchase 11,250 ordinary shares at an exercise price of NIS 4.317 per option and expire on February 18, 2026. Excludes 6,250 unregistered options to purchase 250 ordinary shares and 54,375 unregistered options to purchase 54,375 ordinary shares that vest in more than 60 days from November 21, 2016.
- (4) Represents (i) 24,240 ordinary shares, (ii) 250,000 registered warrants (Series 10) to purchase 10,000 ordinary shares at an exercise price of NIS 0.394 per warrant and expire on December 31, 2016, (iii) 250,000 registered warrants (Series 11) to purchase 10,000 ordinary shares at an exercise price of NIS 0.392 per warrant and expire on December 31, 2016, and (iv) 250,000 unregistered options are exercisable into 10,000 ordinary shares at an exercise price of NIS 0.60 per option and expire on May 2, 2023. All such warrants and options are fully vested.
- (5) Represents 100,000 unregistered options to purchase 4,000 ordinary shares at an exercise price of NIS 0.385 per option and expire on August 14, 2022. All such options are fully vested.
- (6) Represents 8,333 unregistered options to purchase 8,333 ordinary shares at an exercise price of NIS 12 per option and expire on July 14, 2024. Excludes 1,667 unregistered options to purchase 1,667 ordinary shares that vest in more than 60 days from November 21, 2016.

**PROPOSALS 1-4:
RE-ELECTION OF DIRECTORS**

Background

Under the Israeli Companies Law and our articles of association, the management of our business is vested in our Board of Directors. The Board of Directors may exercise all powers and may take all actions that are not specifically granted to our shareholders.

Our articles of association provide that we may have no more than 13 directors, plus the legally required number of external directors. Our Board of Directors currently consists of six directors, including two external directors. Our directors, other than the external directors, are elected at each annual general meeting of shareholders. All of the members of our Board of Directors, other than external directors, may be re-elected for an unlimited number of terms upon completion of their then-current term of office

Each of the nominees, whose professional background is provided below, has advised us that he or she is willing, able and ready to serve as a director if re-elected. We do not have any understanding or agreement with respect to the future election of any of the nominees named.

Ilan Cohn, Ph.D. Ilan Cohn, Ph.D. is a patent attorney and senior partner at the patent attorney firm Reinhold Cohn and Partners, where he has been an attorney since 1986. Dr. Cohn co-founded Can-Fite, served as its Chief Executive Officer until September 2004, served on our Board of Directors since 1994 and since May 30, 2013 serves as the Chairman of the Can-Fite Board of Directors. Dr. Cohn has also been a director of OphthaliX since November 21, 2011. Dr. Cohn holds a Ph.D. in biology and is a patent attorney with many years of experience in the biopharmaceutical field. He has served on the Board of Directors of a number of life science companies, including Discovery Laboratories Inc. (formerly Ansan Pharmaceuticals), a U.S. public company. Dr. Cohn has also been involved in the past in management of venture capital funds focused on investments in the life sciences industry. Dr. Cohn served a number of years as a co-chairman of the Biotech Committee of the US-Israeli Science and Technology Commission. Dr. Cohen is also currently a member of the Board of Directors of I.C.R.C Management Ltd, Famillion BVI Ltd. and Famillion Ltd. (a subsidiary of Famillion BVI Ltd.). Dr. Cohn holds a Ph.D. in Biology from the Hebrew University of Jerusalem.

Pnina Fishman, Ph.D. Pnina Fishman, Ph.D. co-founded Can-Fite and has served as our Chief Executive Officer and served on our Board of Directors since September 2005. She has also served as the Chief Executive Officer of OphthaliX from November 21, 2011 through December 31, 2012. Dr. Fishman is the scientific founder of Can-Fite and was previously a professor of Life Sciences and headed the Laboratory of Clinical and Tumor Immunology at the Felsenstein Medical Research Institute, Rabin Medical Center, Israel. Dr. Fishman has authored or co-authored over 150 publications and presented the findings of her research at many major scientific meetings. Her past managerial experience included seven years as Chief Executive Officer of Mor Research Application, the technology transfer arm of Clalit Health Services, the largest healthcare provider in Israel. Mor Research Application was also the first clinical research organization in Israel. Dr. Fishman currently also serves as a member of the Board of Directors of F.D Consulting Ltd., Ultratrend Ltd., EyeFite Ltd. and OphthaliX Inc. Dr. Fishman holds a Ph.D. in Immunology from the Bar Ilan University in Ramat Gan, Israel.

Abraham Sartani, M.D. Abraham Sartani has served on our Board of Directors since 2001. Dr. Sartani has over 30 years of experience in the pharmaceuticals industry and currently acts as a consultant to pharmaceutical and medical device companies. Dr. Sartani is a member of a number of scientific and management societies and the author or co-author of numerous publications and patents in the urology, pain treatment and hypertension fields. Dr. Sartani also currently serves on the Board of Directors of Akkadeas Pharma Srl and is a co-founding partner. From 1985 until 2008, Dr. Sartani was the Vice-President of R&D and Licensing of Recordati, a European specialty pharmaceutical company. Prior to joining Recordati, from 1980 until 1985, Dr. Sartani was employed at Farmitalia-Carlo Erba, serving in a number of capacities, including as the Medical Director for Europe.

Guy Regev. Guy Regev has over twelve years of experience in accounting, financial management and control and general management of commercial enterprises. He has served on our Board of Directors since July 2011 and has served as a member of our Audit Committee and Compensation Committee since February 2014. Mr. Regev has also been a director of OphthaliX since November 2011. Mr. Regev is currently the Chief Executive Officer of Gaon Holdings Ltd, a publicly traded Israeli holding company traded on the TASE which focuses on three areas of operation - Cleantech / Water, Financial Services, Retail/Trading. Mr. Regev is currently also the Chief Executive Officer of Middle East Tube Company Ltd a publicly traded Israeli company traded on the TASE which focuses on steel pipe manufacturing and galvanization services. Mr. Regev was the Chief Executive Officer of Shaked Global Group Ltd, a privately-held equity investment firm that provides value added capital to environmental-related companies and technologies. Prior to joining Shaked, from 2001 to 2008, Mr. Regev was Vice President of Commercial Business at Housing & Construction Holding, or HCH, Israel's largest infrastructure company. His duties included being responsible for the consolidation and financial recovery of various business units within HCH. Prior to that, Mr. Regev carried several roles within the group including as a Chief Financial Officer and later the Chief Executive Officer of Blue-Green Ltd., the environmental services subsidiary of HCH. Between 1999 and 2001, Mr. Regev was a manager at Deloitte & Touche, Israel. Mr. Regev holds an LLB degree in Law (Israel) and is a licensed attorney and has been a licensed CPA since 1999. Mr. Regev is also a director of, The Green Way Ltd, Shtang Construction and Engineering Ltd, R.I.B.E. Consulting & Investment Ltd., Middle East Tube Company Ltd, Middle East Tube - Industries 2001 Ltd, Middle East Tubes - Galvanizing (1994) Ltd, I-Solar Greentech Ltd, Plassim Infrastructure Ltd, Plassim Advanced Solutions in Sanitation Ltd, Hakohav Valves Industries Metal (1987) Ltd, Metzterplas Agriculture Cooperative Ltd, B. Gaon Retail & Trading Ltd, Gaon Agro - Rimon Management Services Ltd, B. Gaon Business (2004) Ltd, Gaon Antan Investments Ltd, Or Asaf Investments Ltd, Hamashbir Holdings (1999) Ltd, and AHAVA Holdings LTD.

Proposed Resolutions

It is proposed that at the annual meeting the following resolutions be adopted:

“RESOLVED, that the re-election of Pnina Fishman as a director of the Company, to serve until our next annual general meeting of shareholders be, and hereby is, approved in all respects.

RESOLVED, that the re-election of Ilan Cohn as a director of the Company, to serve until our next annual general meeting of shareholders be, and hereby is, approved in all respects.

RESOLVED, that the re-election of Abraham Sartani as a director of the Company, to serve until our next annual general meeting of shareholders be, and hereby is, approved in all respects.

RESOLVED, that the re-election of Guy Regev as a director of the Company, to serve until our next annual general meeting of shareholders be, and hereby is, approved in all respects.”

Required Vote

Under the Israeli Companies Law and our articles of association, the affirmative vote of the holders of a majority of the ordinary shares represented at the annual meeting, in person or by proxy, entitled to vote and voting on the matter, is required to re-elect as directors each of the nominees named above.

Board Recommendation

Our Board of Directors recommends a vote FOR the re-election of the foregoing director nominees.

**PROPOSAL 5:
APPROVAL OF APPOINTMENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS AND
AUTHORIZATION OF THE BOARD AND/OR AUDIT COMMITTEE TO FIX THEIR COMPENSATION**

Background

At the annual meeting, you will be asked to approve the reappointment of Kost Forer Gabbay & Kasierer, an Israeli accounting firm that is a member of Ernst & Young Global, as our independent auditors for the year ending December 31, 2016 and until our next annual general meeting of shareholders and to authorize our Board of Directors (upon recommendation of the audit committee) and/or the audit committee (subject to ratification by our Board of Directors) to fix their compensation.

The following table sets forth, for each of the years indicated, the fees billed by our independent registered public accounting firm.

	Year Ended December 31,	
	2014	2015
	(in thousands of NIS)	
Services Rendered		
Audit (1)	370	370
Audit related services (2)	29	19
Tax	-	-
All other fees (3)	32	9
Total	431	398

- (1) Audit fees consist of services that would normally be provided in connection with statutory and regulatory filings or engagements, including services that generally only the independent accountant can reasonably provide.
- (2) Audit related services consist of services that were reasonably related to the performance of the audit or reviews of our financial statements and not included under "Audit Fees" above, including, principally, providing consents for registration statement filings.
- (3) All other fees consist of consulting services related to compensation and risk management.

Proposed Resolution

We are proposing adoption by our shareholders of the following resolution at the annual meeting:

"RESOLVED, that the appointment of Kost, Forer, Gabbay & Kasierer, a member of Ernst & Young Global, as the independent auditors of the Company for the year ending December 31, 2016 and until the next annual general meeting of shareholders of the Company be, and it hereby is, approved and the Audit Committee be, and hereby is, authorized to fix the compensation of such independent auditors."

Required Vote

The affirmative vote of the holders of a majority of the voting power represented and voting on this proposal in person or by proxy is necessary to approve the resolution to approve the appointment of our independent auditors and authorize the audit committee to fix the independent auditors' compensation.

Board Recommendation

Our Board of Directors recommends a vote FOR the foregoing resolution approving the appointment of our independent auditors and authorization of our audit committee to fix the independent auditors' compensation.

REVIEW AND DISCUSSION OF AUDITOR'S REPORT AND CONSOLIDATED FINANCIAL STATEMENTS

At the annual meeting, in accordance with the requirements of the Israeli Companies Law, our auditor's report and consolidated financial statements for the year ended December 31, 2015 will be presented. We will furthermore hold a discussion with respect to such financial statements at the annual meeting. **This item will not involve a vote of the shareholders.**

The foregoing auditor's report and the audited consolidated financial statements, as well as our Annual Report on Form 20-F for the year ended December 31, 2015 (filed with the Securities and Exchange Commission on March 31, 2016), may be reviewed at the "Investor Information" portion of our website at www.canfite.com, through the EDGAR website of the Securities and Exchange Commission at www.sec.gov, through the Israeli Securities Authority's electronic filing system at: <http://www.magna.isa.gov.il>, or through the website of the Tel-Aviv Stock Exchange Ltd. at: <http://maya.tase.co.il>. None of the auditor's report, audited consolidated financial statements, Form 20-F or the contents of our website form part of the proxy solicitation material.

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 annual meeting, but, if any other matters are properly presented at the annual meeting, the persons named in the attached form of proxy will vote upon such matters in accordance with their best judgment.

By Order of the Board of Directors

Ilan Cohen

Chairman of the Board

Dated: November 21, 2016

CAN-FITE BIOPHARMA LTD.

**PROXY FOR THE ANNUAL GENERAL MEETING OF SHAREHOLDERS
TO BE HELD ON DECEMBER 26, 2016**

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

The undersigned hereby appoints Ilan Cohen, 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 2016 Annual General Meeting of Shareholders (the "Annual Meeting") to be held at the offices of the Company, 10 Bareket Street, Petach Tikva, Israel, on Monday, **December 26, 2016** at 10:00 a.m. (Israel time), and at any adjournments or postponements thereof, upon the following matters, which are more fully described in the Notice of Annual General Meeting of Shareholders (the "Notice") and Proxy Statement relating to the Annual Meeting ("Proxy Statement").

The undersigned acknowledges receipt of the Notice of the Annual General Meeting of Shareholders and Proxy Statement of the Company relating to the 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)

**ANNUAL GENERAL MEETING OF SHREHOLDERS OF
CAN-FITE BIOPHARMA LTD.**

December 26, 2016, 10.00 a.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 re-elect Pnina Fishman to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders.

for **against** **abstain**
2. To re-elect Ilan Cohn to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders.

for **against** **abstain**
3. To re-elect Avraham Sartani to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders.

for **against** **abstain**
4. To re-elect Guy Regev to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders.

for **against** **abstain**
5. To approve the re-appointment of Kost Forer Gabbay & Kasierer, registered public accounting firm, a member firm of Ernst & Young Global, as the Company's independent auditors for the fiscal year ending December 31, 2016 and until the Company's next annual general meeting of shareholders, and to authorize the Audit Committee to fix such accounting firm's compensation.

for **against** **abstain**

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

_____ Date: _____, 2016
SIGNATURE

_____ Date _____, 2016
SIGNATURE

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.

Annual General Meeting of Can-Fite BioPharma Ltd.
 Date: December 26, 2016
 See Voting Instruction On Reverse Side.
 Please make your marks like this: Use pen only

Annual General Meeting of Can-Fite BioPharma Ltd.
 to be held December 26, 2016
 For Holders as of November 28, 2016

- Resolutions**
- | | For | Against | Abstain |
|--|--------------------------|--------------------------|--------------------------|
| 1. To re-elect Prina Fishman to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. To re-elect Ilan Cohn to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. To re-elect Avraham Sartani to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. To re-elect Guy Regav to the Company's Board of Directors for a term expiring at the Company's next annual general meeting of shareholders. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. To approve the re-appointment of Kost Forer Gabbay & Kasierer, registered public accounting firm, a member firm of Ernst & Young Global, as the Company's independent auditors for the fiscal year ending December 31, 2016 and until the Company's next annual general meeting of shareholders, and to authorize the Audit Committee to fix such accounting firm's compensation. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Please separate carefully at the perforation and return just this portion in the envelope provided. ↕



- Mark, sign and date your Voting Instruction Form.
- Detach your Voting Instruction Form.
- Return your Voting Instruction Form in the postage-paid envelope provided.

All votes must be received by 5:00 pm, Eastern Time December 20, 2016.

PROXY TABULATOR FOR
 CAN-FITE BIOPHARMA LTD
 P.O. BOX 8016
 CARY, NC 27512-9903



EVENT #

CLIENT #

Authorized Signatures - This section must be completed for your instructions to be executed.

 Please Sign Here

 Please Sign Here

 Please Date Above

 Please Date Above

Can-Fite BioPharma Ltd.

**Instructions to The Bank of New York Mellon, as Depositary
(Must be received prior to 5:00 p.m. EST on December 20, 2016)**

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 **November 28, 2016** at the **Annual General Meeting** of the Shareholders of **Can-Fite BioPharma Ltd.** To be held on **December 26, 2016** 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 FOR THE MEETING

NOTE:

1. 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 signed and returned but no instructions are indicated in the boxes, then a discretionary proxy will be given to a person designated by the Company.
2. If no voting instructions are received by the Depositary from a Holder (either because no voting instructions are returned to the Depositary by a Holder or because the voting instructions are incomplete, illegible, or unclear), the depositary shall have no obligation to, and shall not, exercise any voting rights attaching to such Deposited Shares.

PROXY TABULATOR FOR
CAN-FITE BIOPHARMA LTD
P.O. Box 8016
CARY, NC 27512-9816