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 May 2025

001-36203 (Commission File Number)

CAN-FITE BIOPHARMA LTD.

(Exact name of Registrant as specified in its charter)

26 Ben Gurion Street Ramat Gan 5257346, 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 \square Form 40-F \square

This Report on Form 6-K (including exhibits thereto) is hereby incorporated by reference into the registrant's Registration Statements on Form S-8 (File No.333-227753, 333-271384 and 333-278525) and Form F-3 (File Nos. 333-236064, 333-276000, 333-274316, 333-281872, and 333-262055), to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.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 May 16, 2025, Can-Fite BioPharma Ltd. (the "Company") announced that it will hold its Annual General Meeting of Shareholders on June 23, 2025, at 3.00 p.m. (Israel time) at the Company's offices at 26 Ben Gurion Street, Ramat Gan, 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 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 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 Shareholders 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.

Date: May 16, 2025 By:

/s/ Motti Farbstein

Motti Farbstein Chief Executive Officer and Chief Financial Officer



NOTICE OF 2025 ANNUAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON JUNE 23, 2025

To the shareholders of Can-Fite BioPharma Ltd.:

Notice is hereby given that the 2025 Annual General Meeting of Shareholders will be held on Monday, June 23, 2025, at 3:00 p.m. Israel time at our offices, 26 Ben Gurion Street, Ramat Gan 5257346 Israel.

The agenda of the annual meeting will be as follows:

- 1. To re-elect Pnina Fishman to our Board of Directors as a Class III director, so that following such re-election, her term shall expire in accordance with her class.
- 2. To re-elect Guy Regev to our Board of Directors as a Class III director, so that following such re-election, his term shall expire in accordance with his class.
- 3. To approve the grant of options to Dr. Pnina Fishman, our Chairman of the Board of Directors.
- 4. To approve the grant of options Mr. Motti Farbstein, our Chief Executive Officer.
- 5. To increase our authorized share capital by 10,000,000,000, such that following the increase, the authorized share capital shall be 20,000,000,000 ordinary shares, with no par value, and to amend our articles of association accordingly.
- 6. 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, 2025, and until our next annual general meeting of shareholders, and to authorize our audit committee to fix such accounting firm's compensation.
- 7. To discuss the auditor's report of our independent registered public accounting firm and audited financial statements for the year ended December 31, 2024, 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 Tuesday, May 27, 2025, 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 26 Ben Gurion Street, Ramat Gan 5257346 Israel, Attention: Chief Financial Officer.

By Order of the Board of Directors

/s/ Dr. Pnina Fishman, Chairman Chairman of the Board May 16, 2025



26 Ben Gurion Street Ramat Gan 5257346 Israel

PROXY STATEMENT

FOR ANNUAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON JUNE 23, 2025

This Proxy Statement is furnished to our holders of ordinary shares, no par value and holders of our ordinary shares that are represented by American Depository Shares, or ADSs, in connection with the 2025 Annual General Meeting of Shareholders, to be held on Monday, June 23, 2025, at 3:00 p.m. Israel time at our offices, 26 Ben Gurion Street, Ramat Gan 5257346 Israel, or at any adjournments thereof.

Throughout this Proxy Statement, we use terms such as "Can-Fite", "we", "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 as a Class III director, so that following such re-election, her term shall expire in accordance with her class.

- 2. To re-elect Guy Regev to our Board of Directors as a Class III director, so that following such re-election, his term shall expire in accordance with his class.
- 3. To approve the grant of options to Dr. Pnina Fishman, our Chairman of the Board of Directors.
- 4. To approve the grant of options to Mr. Motti Farbstein, our Chief Executive Officer.
- 5. To increase our authorized share capital by 10,000,000,000,000, such that following the increase, the authorized share capital shall be 20,000,000,000 ordinary shares, with no par value, and to amend our articles of association accordingly.
- 6. 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, 2025, and until our next annual general meeting of shareholders, and to authorize our audit committee to fix such accounting firm's compensation.
- 7. To discuss the auditor's report of our independent registered public accounting firm and audited financial statements for the year ended December 31, 2024, and to transact such other business as may properly come before the meeting.

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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 the proposals on the agenda.

Who Can Vote

Only shareholders and ADS holders at the close of business on Tuesday, May 27, 2025, 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 Friday, May 16, 2025 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.

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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 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 May 27, 2025. Certain officers, directors, employees, and agents of ours, none of whom will receive additional compensation therefore, 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 the proposals described in this proxy statement pursuant to the Companies Law, 5759-1999 (the "Israeli Companies Law"), you may do so by delivery of appropriate notice to our offices (Attention: Chief Financial Officer) located at 26 Ben Gurion Street, Ramat Gan 5257346 Israel, not later than ten days before the convening of the annual meeting (i.e., Friday, June 13, 2025). Response of the Board of Directors to the position statement may be submitted not later than five days before the convening of the annual meeting (i.e., Wednesday, June 18, 2025).

Quorum

At the close of business on May 15, 2025, we had outstanding 3,863,154,993 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 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.

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Vote Required for Each Proposal

Proposals 1, 2, 5 and 6 to be presented at the annual meeting require the affirmative vote of holders of at least a majority of the voting power represented and voting on such proposal in person or by proxy on the matter presented for passage.

The approval of Proposals 3 and 4 is subject to the affirmative vote of the holders of a majority of the voting power represented and voting on such 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 approval of the proposal (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 the 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, if you hold 50% or more of the voting rights in our Company or have the right to appoint the majority of the directors of the Company or its chief executive officer, 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.

According to the Companies Regulations (exemptions for companies whose securities are listed for trading on a stock exchange outside of Israel) 5760-2000 (the "Exemption Regulations for Companies Listed Abroad"), by signing and submitting the attached Proxy Card, you as a shareholder declare and approve that you have no personal interest in the adoption of Proposals 3 and 4, except if you notified the Company of such in writing. If you believe that you have a personal interest in any of Proposals 3 and 4, and you wish to inform the Company of such personal interest, you should submit such information in advance of voting to the Company at its registered offices at Can-Fite Biopharma Ltd., 26 Ben Gurion Street, Ramat Gan 5257346 Israel, to the attention of Mr. Motti Farbstein.

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 a 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 6 (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 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.

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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.

EXECUTIVE OFFICER COMPENSATION

For information regarding the compensation incurred by the Company in relation to our five most highly compensated office holders (within the meaning of the Israeli Companies Law) for the year ended December 31, 2024, see "Item 6B. Compensation — Compensation of Directors and Senior Management" of the Company's Annual Report on Form 20-F, which was filed on April 14, 2025

PROPOSALS 1 AND 2: 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.

In February 2020, a special general meeting of our shareholders approved an amendment to our articles of association, according to which the Board of Directors, excluding the external directors, if any (who shall be elected and serve in office in strict accordance with the provisions of the Israeli Companies Law, if so required by the Israeli Companies Law), shall consist of three classes of directors as nearly equal in number as practicable, which are appointed for fixed terms of office in accordance with the Israeli Companies Law and our articles of association, as follows: (i) the term of office of the initial Class I directors expired at the first annual general meeting of our shareholders held in 2020 and when their successors were elected and qualified, (ii) the term of office of the initial Class II directors expired at the first annual general meeting of our shareholders following the annual general meeting of our shareholders referred to in clause (ii) above and when their successors are elected and qualified.

Directors (other than external directors), may be elected only in annual general meetings of our shareholders. At each annual general meeting of our shareholders, each of the successors elected to replace the directors of a class whose term shall have expired at such annual general meeting of our shareholders shall be elected to hold office until the third annual general meeting of our shareholders next succeeding his or her election and until his or her respective successor shall have been elected and qualified. Notwithstanding anything to the contrary, each director shall serve until his or her successor is elected and qualified or until such earlier time as such director's office is vacated.

If the number of directors (excluding external directors) that constitutes the Board of Directors is hereafter changed, the then-serving directors shall be re-designated to other classes and/or any newly created directorships or decrease in directorships shall be apportioned by the Board of Directors among the classes so as to make all classes as nearly equal in number as is practicable, provided that no decrease in the number of Directors constituting the Board of Directors shall shorten the term of any incumbent director.

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Directors so elected may not be dismissed from office by the shareholders or by a general meeting of our shareholders prior to the expiration of their term of office. The directors do not receive any benefits upon the expiration of their term of office.

The three classes of directors are Class I Directors, Class II Directors and Class III Directors. Abraham Sartani serves as our Class I Director until the close of the annual meeting to be held in 2026; our Class II Director position is currently vacant; and Dr. Pnina Fishman and Mr. Guy Regev serve as our Class III Directors until the close of the annual meeting to be held in 2025.

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

The director nominees, whose professional backgrounds are provided below, have advised us that they are willing, able, and ready to serve as directors if re-elected. We do not have any understanding or agreement with respect to the future election of the named nominees.

Pnina Fishman, Ph.D. Pnina Fishman, Ph.D. co-founded Can-Fite, has served as our Chief Scientific Officer since June 2023, served on our Board of Directors since September 2005 and since June 2023 has served as the Chairman of the Can-Fite Board of Directors. Dr. Fishman also served as our Chief Executive Officer from 2005 to June 2023. 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., Eye-Fite Ltd. and Ultratrend. Dr. Fishman holds a Ph.D. in Immunology from the Bar Ilan University in Ramat Gan, Israel.

Guy Regev. Guy Regev has over fourteen 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 - Industries 2001 Ltd, Middle East Tubes - Galvanizing (1994) Ltd, I-Solar Greentech Ltd, Plassim Infrastructure Ltd, Plassim Advanced Solutions in Sanitation Ltd, Hakohav Valves

Proposed Resolutions

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

"RESOLVED, that the re-election of Pnina Fishman as a director of the Company, to serve until her term expires in accordance with her Class III designation 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 his term expires in accordance with his Class III designation 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 the director nominees named above.

Board Recommendation

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

PROPOSALS 3 AND 4: APPROVAL OF THE GRANT OF OPTIONS TO OUR CHAIRMAN OF THE BOARD OF DIRECTORS AND TO OUR CHIEF EXECUTIVE OFFICER

Background

Our compensation committee and Board of Directors approved the grant to each of Dr. Pnina Fishman, our Chairman of the Board of Directors and Mr. Motti Farbstein our Chief Executive Officer of 7,500,000 options to purchase 7,500,000 ordinary shares of the Company, at an exercise price equal to the average 30 day closing price of our shares on TASE during the period immediately prior to the Board of Director's resolution to grant such options on April 29, 2025, such options to vest on a quarterly basis over four years. The options shall be granted under our 2023 Global Incentive Option Scheme.

Proposed Resolutions

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

"RESOLVED, to approve the grant of an aggregate number of 7,500,000 options to purchase 7,500,000 ordinary shares to Pnina Fishman upon the terms described above."

"RESOLVED, to approve the grant of an aggregate number of 7,500,000 options to purchase 7,500,000 ordinary shares to Motti Farbstein upon the terms described above."

Required Vote

The approval of Proposals 3 and 4 are subject to the affirmative vote of the holders of a majority of the voting power represented and voting on such proposals 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 approval of the amendments to employment terms of our Chief Executive Officer and Chairman of the Board of Directors (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 the proposal must not represent more than 2% of the outstanding ordinary shares.

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Please note that according to the Exemption Regulations for Companies Listed Abroad by signing and submitting the attached Proxy Card, you as a shareholder declare and approve that you neither are a controlling shareholder nor have a personal interest in the adoption of and of Proposals 3 and 4, except if you notified the Company of such in writing. If you believe that you have a personal interest in any of such Proposal 3 and 4, and you wish to inform the Company of such personal interest, you should submit such information in advance of voting to the Company at its registered offices at Can-Fite, 26 Ben Gurion Street, Ramat Gan 5257346 Israel, to the attention of Mr. Motti Farbstein.

Board Recommendation

Our Board of Directors recommends a vote FOR the approval of the grant on an aggregate number of 7,500,000 options to purchase 7,500,000 ordinary shares to each of Dr. Pnina Fishman and Mr. Motti Farbstein upon the terms described above.

PROPOSAL 5: PROPOSAL TO INCREASE AUTHORIZED SHARE CAPITAL

Background

Our authorized share capital is 10,000,000,000 ordinary shares, with no par value. As of May 15, 2025, we had 3,863,154,993 ordinary shares issued and outstanding and we had no preferred shares outstanding. In addition, as of May 15, 2025, 74,799,000 ordinary shares are issuable or will become issuable upon the exercise of stock options, with no options available for future issuances under our 2013 Share Option Plan and 50,000,000 ordinary shares are issuable or will become issuable upon the exercise of stock options, with an additional 50,000,000 ordinary shares reserved for future issuance under our 2023 Option Plan, and 2,671,627,238 ordinary shares represented by 8,905,424 ADSs are issuable upon exercise of outstanding warrants. Accordingly, 3,290,418,769 ordinary shares remain unissued and unreserved.

The proposal to increase the authorized share capital of the Company is designed to enable us to have sufficient authorized share capital for the upcoming years and in order that the increase in authorized share capital would allow us to meet our future business needs as they arise. These needs could include, among other things, the sale of shares in public and private offerings to raise additional capital, the purchase of property or assets, the acquisition of other companies, the use of shares for various equity compensation and other employee benefit plans and arrangements, the declaration of share splits or dividends, and other bona fide corporate purposes.

The possible future issuance of equity securities consisting of ordinary shares, ADSs or securities convertible into ordinary shares could affect our current shareholders in a number of ways, including the following: (i) diluting the voting power of the current holders of ordinary shares or ADSs; (ii) diluting the market price of the ordinary shares or ADSs, to the extent that the new ordinary shares or ADSs are issued and sold at prices below current trading prices of the existing ordinary shares or ADSs, or if the issuance consists of equity securities convertible into ordinary shares or ADSs, to the extent that the securities provide for the conversion into ordinary shares or ADSs at prices that could be below current trading prices of the ordinary shares or ADSs; and (iii) diluting the book value per share of the outstanding ordinary shares or ADSs.

Proposed Resolution

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

"RESOLVED, that the increase to our authorized share capital by 10,000,000,000, such that following the increase, the authorized share capital shall equal to 20,000,000,000 ordinary shares, with no par value, and the corresponding amendment to our articles of association be, and hereby is, approved in all respects."

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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 for this proposal.

Board Recommendation

Our Board of Directors recommends a vote FOR the increase in our authorized share capital and corresponding amendment to our articles of association as specified above

PROPOSAL 6: APPROVAL OF APPOINTMENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS AND AUTHORIZATION OF THE 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, 2025, and until our next annual general meeting of shareholders and to authorize 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.

	i ea	r ear Ended		
	Dece	December 31,		
	2023	2024		
Services Rendered	(USD in	thousands)		
Audit (1)	169	198		
Audit related services		-		
Tax	·	- -		
All other fees		·		
Total	169	198		

Voor Ended

(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.

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, 2025, 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

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 for this proposal.

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.

10

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, 2024, 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, 2024 (filed with the Securities and Exchange Commission on April 14, 2025), 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 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.

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 MAY 15, 2025. YOU SHOULD NOT ASSUME THAT THE INFORMATION CONTAINED IN THIS DOCUMENT IS ACCURATE AS OF ANY DATE OTHER THAN MAY 15, 2025, AND THE MAILING OF THIS DOCUMENT TO SHAREHOLDERS AND ADS HOLDERS SHOULD NOT CREATE ANY IMPLICATION TO THE CONTRARY.

By Order of the Board of Directors

/s/ Dr. Pnina Fishman, Chairman

Chairman of the Board Dated: May 16, 2025

CAN-FITE BIOPHARMA LTD.

PROXY FOR THE ANNUAL GENERAL MEETING OF SHAREHOLDERS TO BE HELD ON JUNE 23, 2025

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

The undersigned hereby appoints Dr. Pnina Fishman, Chairman of the Board and Motti Farbstein, 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 2025 Annual General Meeting of Shareholders (the "Annual Meeting") to be held at the offices of the Company, 26 Ben Gurion Street Ramat Gan 5257346, Israel, on **Monday, June 23, 2025** at 3:00 p.m. (Israel time), and at any adjournments or postponements thereof, upon the following matters, which are more fully described in the Notice of Annual General Meeting of Shareholders (the "Notice") and Proxy Statement relating to the Annual Meeting, or 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 SHAREHOLDERS OF CAN-FITE BIOPHARMA LTD.

June 23, 2025, 3:00 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 oxtimes

1.		To re-e	lect Pnina Fi	shman to the Com	pany's Board of Directors	as a Class II	I director, until her term expires in accordance with her class.		
			FOR		AGAINST		ABSTAIN		
2.		To re-e	lect Guy Reg	gev to the Compan	y's Board of Directors as a	Class III dii	rector, until his term expires in accordance with his class.		
			FOR		AGAINST		ABSTAIN		
3.		То аррі	rove the gran	at of options to Dr.	. Pnina Fishman, the Comp	oany's Chair	man of the Board of Directors, as described in the accompanying proxy statement.		
			FOR		AGAINST		ABSTAIN		
Share	PLEASE NOTE that by signing and submitting this proxy card, you declare that you have no personal interest in Proposal 3 at this Annual General Meeting of Shareholders, except for a personal interest of which you have notified the Company about in writing, as required under the Israeli Companies Law, 5759-1999. For further information, please see the accompanying proxy statement.								
4.		To appi	rove the gran	at of options to Mr.	Motti Farbstein, the Comp	pany's Chief	Executive Officer, as described in the accompanying proxy statement.		
			FOR		AGAINST		ABSTAIN		
PLEASE NOTE that by signing and submitting this proxy card, you declare that you have no personal interest in Proposal 4 at this Annual General Meeting of Shareholders, except for a personal interest of which you have notified the Company about in writing, as required under the Israeli Companies Law, 5759-1999. For further information, please see the accompanying proxy statement.									
5.							,000,000 shares, such that following the increase, the authorized share capital shall ement to the Company's Articles of Association accordingly.	qual to	
			FOR		AGAINST		ABSTAIN		
6.	6. 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 registered public accounting firm for the year ending December 31, 2025 and until the Company's next annual general meeting of shareholders, and to authorize or audit committee to fix such accounting firm's compensation								
			FOR		AGAINST		ABSTAIN		
In thei	ir d	liscretio	n, the proxie	s are authorized to	vote upon such other matt	ters as may p	roperly come before the Annual Meeting or any adjournment or postponement thereo	of.	
					Date:	_, 2025	Date:, 2025		

SIGNATURE

SIGNATURE

ign in partnership name by authorized	d person.	es are held jointly, each hold yn full corporate name by du		

Your vote matters!

BNY: PO BOX 505006, Louisville, KY 40233-5006

Have your ballot ready and please use one of the methods below for **easy voting:**

Your control number —

Have the 12 digit control number located in the box above available when you access the website and follow the instructions.

Can-Fite BioPharma Ltd.

Annual General Meeting of Shareholders

For Shareholders of record as of May 27, 2025 Monday, June 23, 2025 3:00 PM, Local Time



Mail:

- Mark, sign and date your Proxy Card
- Fold and return your Proxy Card in the postage-paid envelope provided

YOUR VOTE IS IMPORTANT! PLEASE VOTE BY: 12:00 p.m. E.D.T. on June 16, 2025.

Can-Fite BioPharma Ltd.

Instructions to The Bank of New York, as Depositary (Must be received prior to 12:00 p.m. E.D.T. on June 16, 2025)

The undersigned registered owner of American Depositary Shares hereby requests and instructs The Bank of New York, 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. (the "Company"), registered in the name of the undersigned on the books of the Depositary as of the close of business on May 27, 2025 at the Annual General Meeting of Shareholders of the Company to be held on June 23, 2025 at 3:00 p.m. (Israel time), at the offices of the Company, located at 26 Ben Gurion Street, Ramat Gan 5257346 Israel, and at any adjournments or postponements thereof, in respect of the resolutions specified on the reverse side

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

NOTE:

- 1. Please direct the Depositary how to vote by placing an X in the box opposite each agenda item.
- 2. 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.

 3. If no voting instructions are received by the Depositary from a Holder (either because no voting instructions are returned to the Depositary by
- 3. 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.

PLEASE BE SURE TO SIGN AND DATE THIS PROXY CARD AND MARK ON THE REVERSE SIDE

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Please make your marks like this:

	PROPOSAL		YOUR VOTE	
		FOR	AGAINST	ABSTAIN
1.	To re-elect Pnina Fishman to our Board of Directors as a Class III director, so that following such re-election, her term shall expire in accordance with her class.			
2.	To re-elect Guy Regev to our Board of Directors as a Class III director, so that following such re-election, his term shall expire in accordance with his class.			
3.	To approve the grant of options to Dr. Pnina Fishman, our Chairman of the Board of Directors.			
	PLEASE NOTE that by signing and submitting this proxy card, you declare that you have no personal interest in Proposal 3 at this Annual General Meeting of Shareholders, except for a personal interest of which you have notified the Company about in writing, as required under the Israeli Companies Law, 5759-1999. For further information, please see the accompanying proxy statement.			
4.	To approve the grant of options to Mr. Motti Farbstein, our Chief Executive Officer.			
	PLEASE NOTE that by signing and submitting this proxy card, you declare that you have no personal interest in Proposal 4 at this Annual General Meeting of Shareholders, except for a personal interest of which you have notified the Company about in writing, as required under the Israeli Companies Law, 5759-1999. For further information, please see the accompanying proxy statement.			
5.	To increase our authorized share capital by 10,000,000,000, such that following the increase, the authorized share capital shall be 20,000,000,000 ordinary shares, with no par value, and to amend our articles of association accordingly.			
6.	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, 2025, and until our next annual general meeting of shareholders, and to authorize our audit committee to fix such accounting firm's compensation.			
	Authorized Signatures - Must be completed for your instructions to be executed. Please sign exactly as your name(s) appears on your account. If held in joint tenancy, all persons should administrators, etc., should include title and authority. Corporations should provide full name of corpora authorized officer signing the Proxy/Vote Form.			
Sigi	nature (and Title if applicable) Date Signature (if held jointly)		Date	