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 August 2015

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333-199033 and 333-204795), to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.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 August 27, 2015, Can-Fite BioPharma Ltd. issued a press release announcing financial results for the six months ended June 30, 2015 and updates on its drug development programs. A copy of this press release is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

Exhibit Index

Exhibit No.	Description
99.1	Press Release, dated August 27, 2015

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 August 27, 2015

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

Exhibit 99.1

Can-Fite Reports Financial Results for Six Months Ended June 30, 2015

Clinical development update on advancing three drug candidates through four indications

PETACH TIKVA, Israel, August 27, 2015 -- Can-Fite BioPharma Ltd. (NYSE MKT: CANF) (TASE:CFBI), a biotechnology company with a pipeline of proprietary small molecule drugs being developed to treat inflammatory diseases, cancer and sexual dysfunction, today reported financial results for the six months ended June 30, 2015 and updates on its drug development programs.

Clinical Development Program and Corporate Highlights Include:

- ***CF101 – Favorable Psoriasis Data, New U.S. Patent, Proposed Generic Name, and Next Advanced Clinical Studies in Rheumatoid Arthritis & Psoriasis***

  During the second quarter of 2015, Can-Fite reported positive data from further analysis of its completed Phase II/III study that suggests CF101 as a potential systemic therapy for patients with moderate-severe psoriasis, this despite the study not meeting its primary endpoint, as previously announced during the first quarter of 2015. Based on these findings, the Company is preparing the protocol for its next advanced psoriasis trial. During the second quarter of 2015, Can-Fite also completed the design of a Phase III clinical study for the treatment of rheumatoid arthritis and plans to submit the protocol to Institutional Review Boards (IRBs) for approval in the fourth quarter of 2015. The Company is discussing the protocol and the registration plan with its EU notified body. Further, the U.S. Patent and Trademark Office granted Can-Fite a patent covering the manufacturing process for CF101 in the U.S., and the World Health Organization accepted “piclidenoson” as the proposed generic name for CF101, both are important steps prior to bringing a new drug to market.

- ***CF102 – Ongoing Phase II Liver Cancer Trial & Application for Orphan Drug Status in Europe***

  Can-Fite is continuing to enroll and dose patients in its global Phase II liver cancer study. Approximately 78 patients are expected to be enrolled in the trial in the U.S., Europe, and Israel by the end of the first half of 2016. Can-Fite previously received Orphan Drug Designation in the U.S. for CF102 in the treatment of hepatocellular carcinoma (HCC), the most common form of liver cancer.

- ***CF602 – New Pre-clinical Data Supports Upcoming IND Submission for Sexual Dysfunction Drug***

  As Can-Fite prepares to file an investigational new drug (IND) application with the U.S. Food and Drug Administration prior to a Phase I clinical study of CF602 in the treatment of sexual dysfunction, the Company announced new data showing efficacy in a diabetic rat preclinical study. The animals were treated twice daily with CF602 for a period of 1 and 5 days. Treated animals showed a significant response rate resulting in a 188% and 250% increase in penial intra-cavernosal pressure, respectively compared to placebo.

- ***Update on Licensing and Distribution Agreements in Canada and Japan***

  During the second quarter of 2015, Can-Fite received an upfront payment of CDN$1.7 million when it entered into a distribution agreement with Canada-based Cipher Pharmaceuticals. More recently, on August 27, 2015, Can-Fite entered into an agreement with Japan-based Seikagaku Corporation terminating its license agreement. Seikagaku informed Can-Fite that it is strategically focused on expanding its core research and development activities in the field of glyco-science. Under the license agreement, Seikagaku was granted a license for the use, development and marketing of CF101 in Japan with respect to inflammatory indications, except for ophthalmic disease indications. The termination agreement provides, among other things, that all licenses and rights granted to Seikagaku terminate and all clinical and non-clinical studies conducted by Seikagaku shall be transferred free of charge to Can-Fite. Over the life of the license, Can-Fite received an aggregate of approximately $8 million from Seikagaku. Can-Fite recently participated in an Israeli life sciences delegation to Japan with Israel's Office of the Chief Scientist and signed Non-Disclosure Agreements with selected Japanese companies interested in licensing CF101 and CF102. The Company's agreement with Korea-based Kwang Dong remains in place.

- ***Definitive Agreement to Acquire Improved Vision System by Can-Fite Subsidiary OphthaliX***

  During the second quarter of 2015, OphthaliX, Can-Fite's subsidiary, which develops ophthalmic indications of CF101, signed a definitive agreement to acquire Israel-based Improved Vision Systems, LTD. (I.V.S.). The strategic acquisition aims to combine medical devices and pharmaceutical products to address multi-billion dollar markets in treating ophthalmic diseases.

- **Ongoing Phase II Study in Glaucoma by Can-Fite Subsidiary OphthaliX**

  OphthaliX continues to enroll patients in a Phase II clinical study of CF101 for glaucoma and data release is expected during the first half of 2016.

"We look forward to starting advanced stage trials in the coming quarters for CF101 for both the treatment of rheumatoid arthritis and psoriasis, addressing multi-billion dollar markets. Prior Phase II trials for both of these indications have produced valuable data that have helped us optimize the design of the pivotal studies, which move us closer towards applying for marketing approval," stated Can-Fite CEO Dr. Pnina Fishman. "With CF102 in Phase II for liver cancer and our anticipated IND filing for CF602 in sexual dysfunction in Q3 2016, we believe we are well positioned with four distinct clinical programs. During the first half of 2015 we have forged a strategic partnership in Canada and are excited about new opportunities in the Japanese market."

Research and development expenses for the six months ended June 30, 2015 were NIS 5.75 million (U.S. $1.53 million) compared with NIS 8.64 million (U.S. $2.29 million) for the same period in 2014. Research and developments expenses for the first half of 2015 comprised primarily of expenses associated with the Phase II study for CF102 as well as expenses for ongoing studies of CF101. The decrease is primarily due to the completion of the psoriasis Phase II/III study during the first quarter of 2015 and a decrease in the scope of the non-clinical expenses during the first six months of 2015 compared to the same period in 2014.

General and administrative expenses were NIS 4.67 million (U.S. $1.24 million) for the six months ended June 30, 2015 compared to NIS 5.43 million (U.S. $1.44 million) for the same period in 2014. The decrease is primarily due to a reduction in salary and professional services expenses.

Financial income, net for the six months ended June 30, 2015 was NIS 1.88 million (U.S. $0.49 million) compared to NIS 1.71 million (U.S. $0.45 million) for the same period in 2014. The increase in financial income, net in the first half of 2015 was mainly due to a decrease in the fair value of warrants that are accounted as financial liability.

Can-Fite's loss for the six months ended June 30, 2015 was NIS 8.27 million (U.S. $2.19 million) compared with a loss of NIS 12.36 million (U.S. $3.28 million) for the same period in 2014. The decrease in net loss for the first half of 2015 was attributable mainly to a decrease in operating expenses.

As of June 30, 2015, Can-Fite had cash and cash equivalents of NIS 29.20 million (U.S. $7.74 million) as compared to NIS 36.09 million (U.S. $9.57 million) at December 31, 2014. The decrease in cash during the six months ended June 30, 2015 is due to operating expenses offset by NIS 5.14 million (U.S. $1.36 million) received from Cipher Pharmaceuticals as upfront payment for entering into the distribution agreement with Cipher.

For the convenience of the reader, the reported NIS amounts have been translated into U.S. dollars, at the representative rate of exchange on June 30, 2015 (U.S. $ 1 = NIS 3.769).

The Company's consolidated financial statements for the six months ended June 30, 2015 are presented in accordance with International Financial Reporting Standards.

About Can-Fite BioPharma Ltd.

Can-Fite BioPharma Ltd. (NYSE MKT: CANF) (TASE: CFBI) is an advanced clinical stage drug development Company with a platform technology that is designed to address multi-billion dollar markets in the treatment of cancer, inflammatory disease and sexual dysfunction. The Company's CF101 recently completed its Phase II/III trials for the treatment of psoriasis and the Company is preparing for a Phase III CF101 trial for rheumatoid arthritis. Can-Fite's liver cancer drug CF102 is in Phase II trials and has been granted Orphan Drug Designation by the U.S. Food and Drug Administration. CF102 has also shown proof of concept to potentially treat other cancers including colon, prostate, and melanoma. The Company's CF602 has shown efficacy in the treatment of erectile dysfunction. Can-Fite has initiated a full pre-clinical program for CF602 in preparation for filing an IND with the U.S. FDA in this indication. These drugs have an excellent safety profile with experience in over 1,200 patients in clinical studies to date. For more information please visit: www.can-fite.com

Forward-Looking Statements

This press release may contain forward-looking statements, about Can-Fite's expectations, beliefs or intentions regarding, among other things, its product development efforts, business, financial condition, results of operations, strategies or prospects. In addition, from time to time, Can-Fite or its representatives have made or may make forward-looking statements, orally or in writing. Forward-looking statements can be identified by the use of forward-looking words such as "believe," "expect," "intend," "plan," "may," "should" or "anticipate" or their negatives or other variations of these words or other comparable words or by the fact that these statements do not relate strictly to historical or current matters. These forward-looking statements may be included in, but are not limited to, various filings made by Can-Fite with the U.S. Securities and Exchange Commission, press releases or oral statements made by or with the approval of one of Can-Fite's authorized executive officers. Forward-looking statements relate to anticipated or expected events, activities, trends or results as of the date they are made. Because forward-looking statements relate to matters that have not yet occurred, these statements are inherently subject to risks and uncertainties that could cause Can-Fite's actual results to differ materially from any future results expressed or implied by the forward-looking statements. Many factors could cause Can-Fite's actual activities or results to differ materially from the activities and results anticipated in such forward-looking statements, including, but not limited to, the factors summarized in Can-Fite's filings with the SEC and in its periodic filings with the TASE. In addition, Can-Fite operates in an industry sector where securities values are highly volatile and may be influenced by economic and other factors beyond its control. Can-Fite does not undertake any obligation to publicly update these forward-looking statements, whether as a result of new information, future events or otherwise.

Contact
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INTERIM CONDENSED CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

In thousands (except share and per share data)

	Convenience translation into U.S. dollars		
	June 30, 2015	June 30, 2015	December 31, 2014
	Unaudited	Unaudited	Audited
	USD	NIS	
ASSETS			
CURRENT ASSETS:			
Cash and cash equivalents	7,747	29,199	36,091
Accounts receivable and prepaid expenses	758	2,856	3,417
Total current assets	8,505	32,055	39,508
NON-CURRENT ASSETS:			
Lease deposits	7	26	26
Property, plant and equipment, net	65	246	133
Total long-term assets	72	272	159
Total assets	8,577	32,327	39,667

INTERIM CONDENSED CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

In thousands (except share and per share data)

	Convenience translation into U.S. dollars		
	June 30, 2015	June 30, 2015	December 31, 2014
	Unaudited	Unaudited	Audited
	USD	NIS	
LIABILITIES AND SHAREHOLDERS' EQUITY			
CURRENT LIABILITIES:			
Trade payables	356	1,342	1,024
Deferred revenues	287	1,082	-
Other accounts payable	763	2,876	4,750
Total current liabilities	1,406	5,300	5,774
NON-CURRENT LIABILITIES:			
Warrants exercisable into shares	1,087	4,097	6,969
Deferred revenues	1,005	3,788	-
Severance pay, net	57	214	224
Total long-term liabilities	2,149	8,099	7,193
COMMITMENTS AND CONTINGENT LIABILITIES			
SHAREHOLDERS' EQUITY			
Share capital	1,444	5,441	5,441
Share premium	80,248	302,456	301,787
Capital reserve from share-based payment transactions	4,570	17,225	17,153
Warrants exercisable into shares (series 9-12)	2,384	8,983	9,652
Treasury shares	(963)	(3,628)	(3,628)
Accumulated other comprehensive loss	(189)	(711)	(1,015)
Accumulated deficit	(82,794)	(312,048)	(304,150)
Equity attributable to equity holders of the Company	4,700	17,718	25,240
Non-controlling interests	321	1,210	1,460
Total shareholders' equity	5,021	18,928	26,700
Total liabilities and shareholders' equity	8,577	32,327	39,667

INTERIM CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE LOSS

In thousands (except share and per share data)

	Convenience translation into U.S. dollars	Six months ended June 30,	
	2015	2015	2014
	Unaudited		
	USD	NIS	NIS
Revenues	72	271	-
Research and development expenses	1,526	5,751	8,636
General and administrative expenses	1,239	4,670	5,425
Operating loss	2,693	10,150	14,061
Finance expenses	267	1,005	780
Finance income	(766)	(2,886)	(2,485)
Net loss	2,194	8,269	12,356
Other comprehensive loss (income):			
Adjustments arising from translating financial statements of foreign operations	(98)	(370)	(65)
Total comprehensive loss	2,096	7,899	12,291
Loss attributable to:			
Equity holders of the Company	2,095	7,898	12,014
Non-controlling interests	99	371	342
	2,194	8,269	12,356
Comprehensive loss attributable to:			
Equity holders of the Company	2,015	7,594	11,962
Non-controlling interests	81	305	329
	2,096	7,899	12,291
Net loss per share attributable to equity holders of the Company:			
Basic and diluted net loss per share	0.09	0.37	0.71