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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 OF  
THE SECURITIES EXCHANGE ACT OF 1934**

For the month of **January 2022**

Commission File Number: **001-36187**

**EVOGENE LTD.**

(Translation of Registrant's Name into English)

**13 Gad Feinstein Street, Park Rehovot, Rehovot  
P.O.B 4173, Ness Ziona, 7414002, Israel**  
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of 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): \_\_\_\_

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## CONTENTS

On January 11, 2022, Evogene Ltd., or Evogene, announced clearance for a first-in-human phase I study of BMC-128, a drug candidate of its subsidiary Biomica Ltd. A copy of the press release is furnished as Exhibit 99.1 to this Report of Foreign Private Issuer on Form 6-K, or this Form 6-K, and is incorporated herein by reference.

The contents of Exhibit 99.1 to this Form 6-K are incorporated by reference into the registration statements on Form F-3 (File No. 333-253300) and on Form S-8 (File Nos. 333-193788, 333-201443, 333-203856 and 333-259215) of Evogene, filed with the Securities and Exchange Commission, to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

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SIGNATURE

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.

EVOGENE LTD.  
(Registrant)

Date: January 11, 2022

By: /s/ Dorit Kreiner

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Dorit Kreiner  
Chief Financial Officer

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EXHIBIT INDEX

EXHIBIT NO.

99.1

DESCRIPTION

[Press Release: Biomica Announces Clearance for First-in-Human Phase I Study of BMC-128 in Combination with Bristol Myers Squibb's Anti-PD-1 Opdivo®.](#)

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**Biomica Announces Clearance for First-in-Human Phase I  
Study of BMC-128 in Combination with Bristol Myers  
Squibb's Anti-PD-1 Opdivo®**

**Clearance for Proof-of-Concept Phase I human trial in oncology received  
from Israeli Ministry of Health**

**Rehovot, Israel – January 11, 2022** – Biomica Ltd., an emerging biopharmaceutical company developing innovative microbiome-based therapeutics and a subsidiary of Evogene Ltd. (NASDAQ: EVGN, TASE: EVGN), today announced that the Israeli Ministry of Health (MoH) cleared the company to proceed with its Proof-of-Concept (POC), Phase I clinical trial of Biomica's drug candidate BMC-128 in patients with Non-Small Cell Lung Cancer (NSCLC), Melanoma or Renal Cell Carcinoma (RCC), in combination with immune checkpoint inhibitor (ICI) immunotherapy (an anti-PD-1 agent).

Biomica has entered into a supply agreement for the utilization of Bristol Myers Squibb's (BMS) Opdivo® to evaluate the safety and tolerability of BMC-128 therapy in combination with nivolumab (Opdivo®), a human anti-PD-1 therapy, in multiple cancer indications.

The POC combination trial is designed to be a first-in-human (FIH) open-label study to evaluate the safety and tolerability of BMC-128 in combination with BMS' Opdivo® in patients with NSCLC, melanoma or RCC, clinical signals will be monitored as well. This study is expected to take place at Rambam Health Care Campus, as previously announced<sup>1</sup>.

**About BMC128:**

BMC128 is a rationally designed microbial consortium identified and selected through a detailed functional microbiome analysis using *PRISM*, a proprietary high-resolution microbiome analysis platform powered by Evogene's *MicroBoost AI* platform.

Developed as a Live Bacterial Product (LBP), BMC128 is a LBP consortium comprised of four unique bacterial strains, natural inhabitants of the human intestinal tract, that harbor specific functional capabilities with the potential to enhance immunological therapeutic responses and facilitate anti-tumor immune activity through multiple biological processes.

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<sup>1</sup> <https://www.prnewswire.com/news-releases/biomica--rambam-health-care-campus-sign-agreement-for-clinical-trial-of-biomicas-microbiome-based-immuno-oncology-drug-301409731.html>

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Rationally-designed consortia are multi-strain products designed to restore diversity and specific functionality to a host's microbial community with individually selected, cultured bacteria.

**About Biomica Ltd.:**

Biomica is an emerging biopharmaceutical company developing innovative microbiome-based therapeutics utilizing a dedicated Computational Predictive Biology platform (CPB), licensed from Evogene. Biomica aims to identify and characterize disease-related microbiome entities and to develop novel therapeutics based on these understandings. The company is focused on the development of therapies for antibiotic resistant bacteria, immuno-oncology, and microbiome-related gastrointestinal (GI) disorders. Biomica is a subsidiary of Evogene Ltd. (NASDAQ: EVGN, TASE: EVGN). For more information, please visit [www.biomicamed.com](http://www.biomicamed.com).

**About Evogene Ltd.:**

Evogene (NASDAQ: EVGN, TASE: EVGN) is a leading computational biology company focused on revolutionizing product discovery and development in multiple life-science based industries, including human health and agriculture, through the use of our broadly applicable Computational Predictive Biology (CPB) platform. The CPB platform, incorporating a deep understanding of biology leveraged through the power of Big Data and Artificial Intelligence, has been designed to computationally discover and uniquely guide the development of life-science products based on microbes, small molecules and genetic elements. Utilizing the CPB platform, Evogene and its subsidiaries are now advancing product pipelines for human microbiome-based therapeutics through Biomica Ltd., medical cannabis through Canonic Ltd., ag-biologicals through Lavie Bio Ltd., ag-chemicals through AgPlenus Ltd., and ag-solutions for castor oil production through Casterra Ag Ltd. For more information, please visit [www.evogene.com](http://www.evogene.com).

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## Forward Looking Statements

*This press release contains “forward-looking statements” relating to future events. These statements may be identified by words such as “may”, “could”, “expects”, “intends”, “anticipates”, “plans”, “believes”, “scheduled”, “estimates” or words of similar meaning. For example, Biomica and Evogene are using forward-looking statements in this press release when they discuss the development plans for, and the potential safety, tolerability and capabilities of, Biomica’s BMC-128 drug candidate. Such statements are based on current expectations, estimates, projections and assumptions, describe opinions about future events, involve certain risks and uncertainties which are difficult to predict and are not guarantees of future performance. Therefore, actual future results, performance or achievements of Evogene and its subsidiaries may differ materially from what is expressed or implied by such forward-looking statements due to a variety of factors, many of which are beyond the control of Evogene and its subsidiaries, including, without limitation, those risk factors contained in Evogene’s reports filed with the applicable securities authorities. Evogene and its subsidiaries disclaim any obligation or commitment to update these forward-looking statements to reflect future events or developments or changes in expectations, estimates, projections and assumptions.*

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