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 April 2013

Commission File Number 000-30902

COMPUGEN LTD.

(Translation of registrant's name into English)

72 Pinchas Rosen Street Tel-Aviv 69512, Israel (Address of Principal Executive Offices)

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

Form 20-F b Form 40-F o

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): o

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): o

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Compugen Ltd.

On April 2, 2013, Compugen Ltd. (the "Company") issued a press release announcing the initiation of its second focused discovery program, aimed at identification of novel targets for antibody-drug conjugate (ADC) cancer therapy focusing on clinical situations with poor survival rates and/or recurrent cancers. A copy of the press release is filed as Exhibit 99.1 to this Form 6-K and incorporated by reference herein.

The information contained in this Report, including the exhibit hereto, is hereby incorporated by reference into the Company's Registration Statements on Form F-3, File Nos. 333-171655 and 333-185910.

Exhibits

Exhibit

Number Description of Exhibit

99.1 Press Release dated April 2, 2013.

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Signatures

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

COMPUGEN LTD.

Date: April 2, 2013 By: /s/ Dikla Czaczkes Axselbrad

Dikla Czaczkes Axselbrad Chief Financial Officer