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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 December 2018  
Commission File No.: 001-35773

**REDHILL BIOPHARMA LTD.**  
(Translation of registrant's name into English)

**21 Ha'arba'a Street, Tel Aviv, 64739, 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):

Attached hereto as Exhibit 99.1 and incorporated by reference herein is a press release issued by the Registrant on December 4, 2018 entitled: "*RedHill Biopharma Announces Proposed Public Offering of its American Depositary Shares*".

The press release was issued pursuant to, and in accordance with, Rule 134 under the Securities Act of 1933 (as amended) and shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of ADSs in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction.

This Form 6-K and related exhibits are incorporated by reference into the Company's Registration Statements on Form S-8 filed with the Securities and Exchange Commission on May 2, 2013 (Registration No. 333-188286), on October 29, 2015 (Registration No. 333-207654), on July 25, 2017 (Registration No. 333-219441) and on May 23, 2018 (Registration No. 333-225122) and its Registration Statements on Form F-3 filed with the Securities and Exchange Commission on February 25, 2016 (Registration No. 333-209702) and on July 23, 2018 (File No. 333-226278).

**Exhibit No. Description of Exhibit**

[99.1](#) [Press release, December 4, 2018](#)

This Form 6-K contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements may be preceded by the words "intends," "may," "will," "plans," "expects," "anticipates," "projects," "predicts," "estimates," "aims," "believes," "hopes," "potential" or similar words. Forward-looking statements are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company's control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, the risk that the proposed public offering will not be consummated and risks and uncertainties associated with (i) the initiation, timing, progress and results of the Company's research, manufacturing, preclinical studies, clinical trials, and other therapeutic candidate development efforts; (ii) the Company's ability to advance its therapeutic candidates into clinical trials or to successfully complete its preclinical studies or clinical trials; (iii) the extent and number of additional studies that the Company may be required to conduct and the Company's receipt of regulatory approvals for its therapeutic candidates, and the timing of other regulatory filings, approvals and feedback; (iv) the manufacturing, clinical development, commercialization, and market acceptance of the Company's therapeutic candidates; (v) the Company's ability to successfully promote Donnatal®, Mytesi® and Esomeprazole Strontium Delayed-Release Capsules 49.3 mg and commercialize EnteraGam®; (vi) the Company's ability to establish and maintain corporate collaborations; (vii) the Company's ability to acquire products approved for marketing in the U.S. that achieve commercial success and build its own marketing and commercialization capabilities; (viii) the interpretation of the properties and characteristics of the Company's therapeutic candidates and the results obtained with its therapeutic candidates in research, preclinical studies or clinical trials; (ix) the implementation of the Company's business model, strategic plans for its business and therapeutic candidates; (x) the scope of protection the Company is able to establish and maintain for intellectual property rights covering its therapeutic candidates and its ability to operate its business without infringing the intellectual property rights of others; (xi) parties from whom the Company licenses its intellectual property defaulting in their obligations to the Company; (xii) estimates of the Company's expenses, future revenues, capital requirements and needs for additional financing; (xiii) the effect of patients suffering adverse experiences using investigative drugs under the Company's Expanded Access Program; and (xiv) competition from other companies and technologies within the Company's industry. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 20-F filed with the SEC on February 22, 2018. All forward-looking statements included in this press release are made only as of the date of this press release. The Company assumes no obligation to update any written or oral forward-looking statement, whether as a result of new information, future events or otherwise, unless required by law.

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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.

REDHILL BIOPHARMA LTD.  
(Registrant)

Date: December 4, 2018

By: /s/ Dror Ben-Asher  
Dror Ben-Asher  
Chief Executive Officer

## RedHill Biopharma Announces Proposed Public Offering of its American Depositary Shares

TEL-AVIV, Israel and RALEIGH, N.C., Dec. 04, 2018 (GLOBE NEWSWIRE) – RedHill Biopharma Ltd. (Nasdaq: RDHL) (Tel-Aviv Stock Exchange: RDHL) (“RedHill” or the “Company”), a specialty biopharmaceutical company primarily focused on proprietary drugs for gastrointestinal diseases, today announced that it intends to offer its American Depositary Shares (“ADSs”), each representing ten of its ordinary shares, in an underwritten public offering. The Company also expects to grant the underwriters a 30-day option to purchase up to an additional 15% of the number of ADSs offered to the public. The offering is subject to market conditions and there can be no assurance as to whether or when the offering may be completed, or as to the actual size or terms of the offering.

The Company intends to use the net proceeds from the offering, together with its existing cash and cash equivalents, to fund preparations for TALICIA® (*H. pylori*) commercial launch and commercialization activities, clinical development programs, including initiation of a pivotal Phase III study with RHB-204 for NTM, preparations for a second Phase III study with RHB-104 for Crohn’s disease and for acquisitions and general corporate purposes.

Ladenburg Thalmann & Co. Inc., a subsidiary of Ladenburg Thalmann Financial Services Inc. (NYSE American: LTS) and Nomura Securities International, Inc. are acting as joint book-running managers.

The ADSs described above are being offered by the Company pursuant to shelf registration statements that were previously filed with the Securities and Exchange Commission (the “SEC”) and declared effective by the SEC on March 11, 2016 and July 31, 2018, respectively. A preliminary prospectus supplement and accompanying prospectus related to the offering will be filed with the SEC and will be available on the SEC’s website located at [www.sec.gov](http://www.sec.gov). Before you invest, you should read the preliminary prospectus supplement and accompanying prospectus and other documents we have filed with the SEC for more complete information about us and this offering. Copies of the preliminary prospectus supplement and the accompanying prospectus relating to the offering may be obtained, when available, by contacting Ladenburg Thalmann & Co. Inc., Prospectus Department, 277 Park Avenue, 26th Floor, New York, New York 10172, by calling (212) 409-2000, or by email at [prospectus@ladenburg.com](mailto:prospectus@ladenburg.com); or Nomura Securities International, Inc., Attention: Equity Syndicate Department, Worldwide Plaza, 309 West 49th Street, New York, NY 10019-7316, or by telephone at 212-667-9000, or by email at [equitysyndicateamericas@nomura.com](mailto:equitysyndicateamericas@nomura.com).

This press release shall not constitute an offer to sell or the solicitation of an offer to buy the securities described herein, nor shall there be any sale of these securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

### About RedHill Biopharma Ltd.:

RedHill Biopharma Ltd. (Nasdaq: RDHL) (Tel-Aviv Stock Exchange: RDHL) is a specialty biopharmaceutical company, primarily focused on the development and commercialization of late clinical-stage, proprietary drugs for the treatment of gastrointestinal diseases. RedHill commercializes and promotes four gastrointestinal products in the U.S.: **Donnatal®** - a prescription oral adjunctive drug used in the treatment of IBS and acute enterocolitis; **Mytesi®** - an anti-diarrheal drug indicated for the symptomatic relief of non-infectious diarrhea in adult patients with HIV/AIDS on anti-retroviral therapy; **Esomeprazole Strontium Delayed-Release Capsules 49.3 mg** - a prescription proton pump inhibitor indicated for adults for the treatment of gastroesophageal reflux disease (GERD) and other gastrointestinal conditions, and **EnteraGam®** - a medical food intended for the dietary management, under medical supervision, of chronic diarrhea and loose stools. RedHill’s key clinical-stage development programs include: (i) **TALICIA® (RHB-105)** for the treatment of *Helicobacter pylori* infection with two positive Phase 3 studies; (ii) **RHB-104**, with positive top-line results from a first Phase 3 study for Crohn’s disease; (iii) **RHB-204**, with a planned pivotal Phase 3 study for nontuberculous mycobacteria (NTM) infections; (iv) **BEKINDA® (RHB-102)**, with positive results from a Phase 3 study for acute gastroenteritis and gastritis and positive results from a Phase 2 study for IBS-D; (v) **YELIVA® (ABC294640)**, a first-in-class SK2 selective inhibitor, targeting multiple oncology, inflammatory and gastrointestinal indications, with an ongoing Phase 2a study for cholangiocarcinoma; (vi) **RHB-106**, an encapsulated bowel preparation licensed to Salix Pharmaceuticals, Ltd. and (vii) **RHB-107 (formerly MESUPRON)**, a Phase 2-stage first-in-class, serine protease inhibitor, targeting cancer and inflammatory gastrointestinal diseases.

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*otherwise, unless required by law.*

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