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: June 2026

Commission File Number: 001-38428

PolyPid Ltd.
(Translation of registrant's name into English)

18 Hasivim Street
Petach Tikva 495376, Israel
(Address of principal executive office)

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

CONTENTS

Attached hereto and incorporated herein is PolyPid Ltd.'s (the "Registrant") press release issued on June 1, 2026, titled "PolyPid Completes New Drug Application Submission to FDA for D-PLEX$_{100}$."

The first two paragraphs and the section titled "Forward-looking Statements" in the press release are incorporated by reference into the Registrant's registration statements on Form F-3 (File No. 333-276826, File No. 333-280658, File No. 333-281863, File No. 333-284376 and File No. 333-289034) and Form S-8 (File No. 333-239517, File No. 333-271060, File No. 333-277703, File No. 333-280662 and File No. 333-289570) 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and Exchange Commission to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

EXHIBIT INDEX

Exhibit No.	
99.1	Press Release issued by PolyPid Ltd. on June 1, 2026, titled "PolyPid Completes New Drug Application Submission to FDA for D-PLEX$_{100}$."

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.

POLYPID LTD.

Date: June 1, 2026

By: /s/ Dikla Czaczkes Akselbrad
Name: Dikla Czaczkes Akselbrad
Title: Chief Executive Officer

Exhibit 99.1

PolyPid Completes New Drug Application Submission to FDA for D-PLEX$_{100}$

If approved, D-PLEX$_{100}$ would address a critical unmet medical need in the prevention of surgical site infections

PDUFA target action date currently planned for the first quarter of 2027

PETACH TIKVA, Israel, June 1, 2026 -- PolyPid Ltd. (Nasdaq: PYPD) ("PolyPid" or the "Company"), an innovative biopharmaceutical company dedicated to improving patient outcomes by elevating treatment effectiveness, right where care begins, today announced the successful completion of its New Drug Application ("NDA") submission on a rolling review basis to the U.S. Food and Drug Administration ("FDA") for D-PLEX$_{100}$, the Company's lead product candidate for the prevention of surgical site infections ("SSIs") in patients undergoing colorectal surgery. The Company anticipates a potential FDA decision in the first quarter of 2027 under the Prescription Drug User Fee Act ("PDUFA") review timeline.

The NDA is supported by positive results from the Company's pivotal Phase 3 SHIELD II trial that met its primary endpoint and all key secondary endpoints, and demonstrated a 60% relative risk reduction in SSIs compared to standard of care (p=0.0013). D-PLEX$_{100}$ has been granted Breakthrough Therapy, Fast Track, and Qualified Infectious Disease Product ("QIDP") designations by the FDA, supporting eligibility for Priority Review.

"Completing the NDA submission for D-PLEX$_{100}$ is a defining milestone for PolyPid and the culmination of years of disciplined clinical and regulatory work," said Dikla Czaczkes Akselbrad, Chief Executive Officer of PolyPid. "With the full application now before the FDA, we are focused on supporting the agency's review, finalizing our U.S. commercial partnership discussions, and preparing for the potential approval and launch of a novel approach to the prevention of SSIs."

About D-PLEX$_{100}$

D-PLEX$_{100}$ is PolyPid's lead product candidate, designed to prevent surgical site infections following abdominal colorectal surgery. Built on the Company's proprietary Kynatrix™ technology, D-PLEX$_{100}$ is administered locally at the surgical site at the time of wound closure and delivers a sustained, controlled release of doxycycline for approximately 30 days, with minimal systemic exposure. In the Phase 3 SHIELD II trial, D-PLEX$_{100}$ met its primary endpoint and key secondary endpoints, demonstrating a 60% relative risk reduction in SSIs compared to standard of care (p=0.0013). D-PLEX$_{100}$ has been granted Breakthrough Therapy, Fast Track, and Qualified Infectious Disease Product (QIDP) designations by the FDA.

About PolyPid

PolyPid Ltd. (Nasdaq: PYPD) is an innovative biopharmaceutical company dedicated to elevating treatment effectiveness, right where care begins. The Company develops long-acting, controlled-release drugs designed to deliver therapy precisely at the site of care, addressing critical unmet medical needs across a wide and diverse pipeline spanning surgical care, metabolic diseases, and beyond. PolyPid's lead product, D-PLEX$_{100}$, successfully met its primary and all key secondary endpoints in the landmark Phase 3 SHIELD II trial for the prevention of surgical site infections. Guided by a commitment to precision and innovation, PolyPid is redefining how therapies perform and raises the standard of patient care. For additional Company information, please visit http://www.polypid.com and follow us on Twitter (X) and LinkedIn.

Forward-looking Statements

This press release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act and other securities laws. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimates" and similar expressions or variations of such words are intended to identify forward-looking statements. For example, the Company is using forward-looking statements when it discusses its anticipation about the potential FDA decision and the timing thereof, benefits and advantages of D-PLEX$_{100}$, the Company's focus on supporting the FDA's review, finalization of its U.S. commercial partnership discussions, and preparation for the potential approval and launch of a novel approach to the prevention of SSIs. Forward-looking statements are not historical facts, and are based upon management's current expectations, beliefs and projections, many of which, by their nature, are inherently uncertain. Such expectations, beliefs and projections are expressed in good faith. However, there can be no assurance that management's expectations, beliefs and projections will be achieved, and actual results may differ materially from what is expressed in or indicated by the forward-looking statements. Forward-looking statements are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in the forward-looking statements. For a more detailed description of the risks and uncertainties affecting the Company, reference is made to the Company's reports filed from time to time with the Securities and Exchange Commission, including, but not limited to, the risks detailed in the Company's Annual Report on Form 20-F filed on February 25, 2026. Forward-looking statements speak only as of the date the statements are made. The Company assumes no obligation to update forward-looking statements to reflect actual results, subsequent events or circumstances, changes in assumptions or changes in other factors affecting forward-looking information except to the extent required by applicable securities laws. If the Company does update one or more forward-looking statements, no inference should be drawn that the Company will make additional updates with respect thereto or with respect to other forward-looking statements. References and links to websites have been provided as a convenience, and the information contained on such websites is not incorporated by reference into this press release. PolyPid is not responsible for the contents of third-party websites.

Company Contact:

PolyPid Ltd.
Ori Warshavsky
908-858-5995
IR@Polypid.com

Investor Relations Contact:

Arx Investor Relations
North American Equities Desk
polypid@arxhq.com