UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 12b-25

NOTIFICATION OF LATE FILING

SEC FILE NUMBER
001-37960
CUSIP NUMBER
73102V204

(Check One): ☐ Form 10-K ☐ Form 20-F ☐ Form 11-K ☒ Form 10-Q ☐ Form N-SAR ☐ Form N-CSR

For Period Ended: **September 30, 2026**

☐ Transition Report on Form 10-K
☐ Transition Report on Form 20-F
☐ Transition Report on Form 11-K
☐ Transition Report on Form 10-Q
☐ Transition Report on Form N-SAR

For the Transition Period Ended: _____

Read attached instruction sheet before preparing form. Please Print or Type.
Nothing in this form shall be construed to imply that the Commission has verified any information contained herein.

If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates:

PART I
REGISTRANT INFORMATION

Polar Power, Inc.
Full Name of Registrant

Former Name if Applicable

249 E. Gardena Boulevard
Address of Principal Executive Office *(Street and Number)*

Gardena, California 90248
City, State and Zip Code

PART II
RULES 12b-25(b) AND (c)

If the subject report could not be filed without unreasonable effort or expense and the registrant seeks relief pursuant to Rule 12b-25(b), the following should be completed. (Check box if appropriate)

(a) The reasons described in reasonable detail in Part III of this form could not be eliminated without unreasonable effort or expense;

☒ (b) The subject annual report, semi-annual report, transition report on Form 10-K, Form 20-F, 11-K, Form N-SAR or From N-CSR, or portion thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report of transition report on Form 10-Q, or portion thereof will be filed on or before the fifth calendar day following the prescribed due date; and

(c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

PART III
NARRATIVE

State below in reasonable detail the reasons why Forms 10-K, 20-F, 11-K, 10-Q, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

Polar Power, Inc. (the "Registrant") has determined that it is unable, without unreasonable effort or expense, to file its Quarterly Report on Form 10-Q for the fiscal quarter ended September 30, 2026 (the "Quarterly Report") with the U.S. Securities Exchange Commission (the "SEC") by the prescribed due date. The Registrant has experienced a delay in completing its financial statements and other disclosures in the Quarterly Report. As a result, the Registrant requires additional time for compilation of the required information to complete the Quarterly Report and ensure adequate disclosure of certain information required to be included in the Quarterly Report.

The Registrant expects to file the Quarterly Report no later than the fifth calendar day following the prescribed due date.

PART IV
OTHER INFORMATION

(1) Name and telephone number of person to contact in regard to this notification

Chris Mayer	+1	(310) 830-9153
(Name)	(Area Code)	(Telephone Number)

(2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months (or for such shorter) period that the registrant was required to file such reports) been filed? If answer is no, identify report(s). ☒ Yes ☐No

(3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof? ☐ Yes ☒ No

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

Polar Power, Inc.
(Name of Registrant as Specified in Charter)

Has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 16, 2026

By: */s/ Chris Mayer*
Name: Chris Mayer
Title: Co-Chief Executive Officer

INSTRUCTION: The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the person signing the form shall be typed or printed beneath the signature. If the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

Intentional misstatements or omissions of fact constitute Federal Criminal Violations (See 18 U.S.C. 1001).
