PROSPECTUS SUPPLEMENT NO. 21 (to Prospectus dated September 13, 2022)



ASTRA SPACE, INC. 34,000,000 SHARES OF CLASS A COMMON STOCK

This prospectus supplement amends and supplements the prospectus dated September 13, 2022 (as supplemented or amended from time to time, the "Prospectus"), which forms a part of our Registration Statement on Form S-1 (No. 333-267113). This prospectus supplement is being filed to update and supplement the information in the Prospectus with the information contained in our Current Report on Form 8-K, filed with the Securities and Exchange Commission (the "SEC") on March 10, 2023 (the "Current Report"). Accordingly, we have attached the Current Report to this prospectus supplement.

The Prospectus and this prospectus supplement relate to the offer and resale of up to 34,000,000 shares of Class A Common Stock, par value \$0.0001 per share (the "Class A Common Stock"), of Astra Space, Inc. by B. Riley Principal Capital II, LLC (the "Selling Stockholder"). The shares included in the Prospectus and this Prospectus supplement consist of shares of Class A Common Stock that we may, in our discretion, elect to issue and sell to the Selling Stockholder pursuant to a common stock purchase agreement we entered into with the Selling Stockholder on August 2, 2022 (the "Purchase Agreement"). Such shares of Class A Common Stock include (i) up to 33,281,805 shares of our Class A Common Stock that we may, in our sole discretion, elect to sell to the Selling Stockholder from time to time after the date of this prospectus, pursuant to the Purchase Agreement and (ii) 718,195 shares of our Class A Common Stock we issued, or may issue if certain conditions are met, in each case, to the Selling Stockholder as consideration for its commitment to purchase shares of our Class A Common Stock in one or more purchases that we may, in our sole discretion, direct them to make, from time to time after the date of this prospectus, pursuant to the Purchase Agreement. See "The Committed Equity Financing" for a description of the Purchase Agreement and "Selling Stockholder" for additional information regarding the Selling Stockholder.

Our Class A common stock is listed on Nasdaq under the symbol "ASTR". On March 9, 2023, the closing price of our Class A common stock was \$0.4489 per share.

This prospectus supplement updates and supplements the information in the Prospectus and is not complete without, and may not be delivered or utilized except in combination with, the Prospectus, including any amendments or supplements thereto. This prospectus supplement should be read in conjunction with the Prospectus and if there is any inconsistency between the information in the Prospectus and this prospectus supplement, you should rely on the information in this prospectus supplement.

Investing in our securities involves risks that are described in the "Risk Factors" section beginning on page 17 of the Prospectus.

Neither the SEC nor any state securities commission has approved or disapproved of the securities to be issued under the Prospectus or determined if the Prospectus or this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is March 10, 2023.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K	
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CURRENT REPORT Pursuant to Section 13 or 15(d)

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): March 10, 2023

Astra Space, Inc.

(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation) 001-39426 (Commission File Number)

Registrant's Telephone Number, Including Area Code: (866) 278-7217

85-1270303 (IRS Employer Identification No.)

1900 Skyhawk Street
Alameda, California
(Address of Principal Executive Offices)

94501 (Zip Code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions: Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) П Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) П Securities registered pursuant to Section 12(b) of the Act: Trading Name of each exchange Title of each class Symbol(s) on which registered Class A common stock, par value \$0.0001 per share NASDAQ Global Select Market ASTR Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§ 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter). Emerging growth company \square If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 8.01 Other Events.

On March 10, 2023, Astra Space, Inc. (the "Company") issued a press release announcing that it is taking steps to proactively review stockholder ownership of its Class A common stock in an effort to identify parties to suspicious, aberrant or unusual trading activity and deploy corrective action steps to help curtail any such activity, and that the Company has engaged ShareIntel-Shareholder Intelligence Services, LLC to assist in this review and analysis. A copy of the press release is attached hereto as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit No. Description of Exhibit

99.1 Press release issued by Astra Space, Inc. on March 10, 2023

104 Cover Page Interactive Data File (embedded within the Inline XBRL document)

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.

Date: March 10, 2023 Astra Space, Inc.

By: /s/ Axel Martinez

Name: Axel Martinez

Title: Chief Financial Officer

ASTRA INVESTIGATES POTENTIAL ILLEGAL SHORT SELLING

Company Engages ShareIntel to Assist in Identifying Irregular Trading Behavior

ALAMEDA, California — March 10, 2023 — Astra Space, Inc. ("Astra") (Nasdaq: ASTR) today announced that it is taking steps to proactively review stockholder ownership of Astra's Class A common stock in an effort to identify parties to suspicious, aberrant or unusual trading activity and deploy corrective action steps to help curtail any such activity.

As part of its ongoing corporate governance efforts, Astra has engaged ShareIntel-Shareholder Intelligence Services, LLC ("ShareIntel") to assist with this review and analysis. ShareIntel's service offerings will provide Astra with access and insight into broker-dealer, clearing firm and stockholder position movement that are designed to help coordinate, monitor and enhance corporate governance, stockholder communication, regulatory compliance and surveillance of trading in Astra's shares.

"Astra remains committed to protecting our investors and maximizing stockholder value," said Chris Kemp, Astra Founder, Chairman, and CEO. "Partnering with ShareIntel will allow Astra to track share ownership, monitor any irregular trading behavior, and take appropriate measures, if necessary."

David Wenger, President and Chief Executive Officer of ShareIntel, stated, "We look forward to helping Astra Space, Inc. identify parties to potential illegal naked short selling and assist to implement action plans to address any such activity."

About Astra Space, Inc.

Astra's mission is to improve life on Earth from space® by creating a healthier and more connected planet. Today, Astra offers one of the lowest cost-per-launch dedicated orbital launch services of any operational launch provider in the world, and one of the industry's first flight-proven electric propulsion systems for satellites, Astra Spacecraft Engine™. Astra delivered its first commercial launch to low Earth orbit in 2021, making it the fastest company in history to reach this milestone, just five years after it was founded in 2016. Astra (NASDAQ: ASTR) was the first space launch company to be publicly traded on Nasdaq. Visit astra.com to learn more about Astra.

About ShareIntel-Shareholder Intelligence Service, LLC

SIS is a patented compliance driven SAAS retained by public companies to track shareholder ownership, monitor critical broker-dealer and shareholder movement. DRIL-Down $^{\text{TM}}$ identifies participants to abusive and illegal short selling providing actionable intelligence. www.shareintel.com

Safe Harbor

Certain statements made in this press release are "forward-looking statements". Forward-looking statements may be identified by the use of words such as "anticipate", "believe", "expect", "estimate", "plan", "outlook", and "project" and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements reflect the current analysis of existing information and are subject to various risks and uncertainties. As a result, caution must be exercised in relying on forward-looking statements. The following factors, among others, could cause actual results to differ materially from those described in these forward-looking statements: (i) our failure to meet projected development and delivery targets, including as a result of the decisions of governmental authorities or other third parties not within our control or delays associated with our move-in to our new production facility; (ii) changes in applicable laws or regulations; (iii) the ability of the Astra to meet its financial and strategic goals, due to, among other things, competition; (iv) the ability of Astra

to pursue a growth strategy and manage growth profitability; (v) the possibility that Astra may be adversely affected by other economic, business, and/or competitive factors; (vi) the effect of the COVID-19 pandemic on Astra and (vii) other risks and uncertainties described discussed from time to time in other reports and other public filings with the Securities and Exchange Commission, including our registration statements and quarterly reports.

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