SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No. 1)*

Firefly Aerospace Inc.

(Name of Issuer)

Common Stock, par value $0.0001 per share

(Title of Class of Securities)

(CUSIP Number)

06/30/2026

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [ ] Rule 13d-1(b)
- [ ] Rule 13d-1(c)
- [x] Rule 13d-1(d)

SCHEDULE 13G

CUSIP No.

1	Names of Reporting Persons Astera Institute
2	Check the appropriate box if a member of a Group (see instructions) [ ] (a) [ ] (b)
3	Sec Use Only
4	Citizenship or Place of Organization DELAWARE

Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 11,338,168.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 11,338,168.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 11,338,168.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐
11		Percent of class represented by amount in row (9) 6.9 %
12		Type of Reporting Person (See Instructions) CO

SCHEDULE 13G

CUSIP No.

1		Names of Reporting Persons Jed McCaleb
2		Check the appropriate box if a member of a Group (see instructions) ☐ (a) ☐ (b)
3		Sec Use Only
4		Citizenship or Place of Organization UNITED STATES
Number of Shares Beneficially Owned by Each Reporting Person With:	5	Sole Voting Power 0.00
	6	Shared Voting Power 11,338,168.00
	7	Sole Dispositive Power 0.00
	8	Shared Dispositive Power 11,338,168.00
9		Aggregate Amount Beneficially Owned by Each Reporting Person 11,338,168.00
10		Check box if the aggregate amount in row (9) excludes certain shares (See Instructions) ☐

11	Percent of class represented by amount in row (9) 6.9 %
12	Type of Reporting Person (See Instructions) IN

SCHEDULE 13G

Item 1.

(a) Name of issuer:

Firefly Aerospace Inc.

(b) Address of issuer's principal executive offices:

2203 Scottsdale Drive Leander, TX, 78641

Item 2.

(a) Name of person filing:

Each of the following is hereinafter individually referred to as a "Reporting Person" and collectively as the "Reporting Persons." This statement is filed on behalf of: Astera Institute Jed McCaleb

(b) Address or principal business office or, if none, residence:

The principal business address of each of the Reporting Persons is 1351 Ocean Ave, Emeryville, CA 94608.

(c) Citizenship:

Astera Institute is organized under the laws of the State of Delaware. Jed McCaleb is a citizen of the United States.

(d) Title of class of securities:

Common Stock, par value $0.0001 per share

(e) CUSIP No.:

Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(a) ☐ Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);

(b) ☐ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);

(c) ☐ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);

(d) ☐ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);

(e) ☐ An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);

(f) ☐ An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);

(g) ☐ A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);

(h) ☐ A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);

(i) ☐ A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);

(j) ☐ A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

(k) ☐ Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

Item 4. Ownership

(a) Amount beneficially owned:

The ownership information presented below represents beneficial ownership of the shares of Common Stock as of June 30, 2026, based upon 164,067,383 shares of Common Stock outstanding as of June 1, 2026, as disclosed in the Issuer's Prospectus filed with the Securities and Exchange Commission on June 1, 2026. Astera Institute is the record holder of the shares of Common Stock reported herein. Astera Institute is a non-profit organization and Jed McCaleb is the executive director of such organization. As such, Mr. McCaleb disclaims beneficial ownership of any securities held by Astera Institute.

(b) Percent of class:

6.9% %

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

0

(ii) Shared power to vote or to direct the vote:

11,338,168

(iii) Sole power to dispose or to direct the disposition of:

0

(iv) Shared power to dispose or to direct the disposition of:

11,338,168

Item 5. Ownership of 5 Percent or Less of a Class.

Item 6. Ownership of more than 5 Percent on Behalf of Another Person.

Not Applicable

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not Applicable

Item 8. Identification and Classification of Members of the Group.

Not Applicable

Item 9. Notice of Dissolution of Group.

Not Applicable

Item 10. Certifications:

Not Applicable

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Astera Institute

Signature: /s/ Jed McCaleb
Name/Title: Jed McCaleb, Executive Director
Date: 08/11/2026

Jed McCaleb

Signature: /s/ Jed McCaleb
Name/Title: Jed McCaleb
Date: 08/11/2026

Exhibit Information

Exhibit 99: Joint Filing Agreement (previously filed).