

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Bender Jeremy</u> (Last) (First) (Middle) C/O AURA BIOSCIENCES, INC. 80 GUEST STREET (Street) BOSTON MA 02135 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 07/07/2026	3. Issuer Name and Ticker or Trading Symbol <u>Aura Biosciences, Inc. [AURA]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

Remarks:

Exhibit 24.1 - Power of Attorney.

No securities are beneficially owned.

/s/ Conor Kilroy, as Attorney-in-Fact 07/08/2026

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

POWER OF ATTORNEY

Know all by these present, that I, the undersigned director and/or officer of Aura Biosciences, Inc., a Delaware corporation (the "Company"), hereby constitute and appoint Conor Kilroy and Amy Elazzouzi as my true and lawful attorney-in-fact and agent, with full power to act, together or each without the other, with full power of substitution and reconstitution, for me and in my name, place and stead, in any and all capacities:

(i) to execute and file for and on behalf of the undersigned any reports on Forms 3, 4 and 5 (including any amendments thereto and any successors to such Forms) with respect to ownership acquisition or disposition of securities of the Company that the undersigned may be required to file with the U.S. Securities and Exchange Commission (the "SEC") in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the rules promulgated thereunder;

(ii) to execute and file for and on behalf of the undersigned any voluntary filings under Section 16(a) of the Exchange Act;

(iii) to request electronic filing codes from the SEC by filing the Form ID (including amendments thereto) and any other documents necessary or appropriate to obtain codes and passwords enabling the undersigned to file such reports electronically;

(iv) to prepare, file, and submit any documents or reports that may be required under SEC Rule 144 to permit the undersigned to sell Company common stock without registration under the Securities Act of 1933, as amended (the "Securities Act") in reliance on Rule 144 as amended from time to time; or

(v) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's or attorney-in-fact's discretion.

The undersigned acknowledges that the foregoing attorney-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16(a) of the Exchange Act or the Securities Act. The Company will use all reasonable efforts to apprise the undersigned of applicable filing requirements for purposes of Section 16(a) of the Exchange Act or the Securities Act.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact. This Power of Attorney revokes and replaces any prior Power of Attorney executed by the undersigned with respect to the ownership, acquisition or disposition of securities of the Company.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this July 6, 2026.

/s/ Jeremy Bender
Signature

Jeremy Bender
Print Name
