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

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**FORM S-8**  
**REGISTRATION STATEMENT**  
*UNDER*  
**THE SECURITIES ACT OF 1933**

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**Taysha Gene Therapies, Inc.**

(Exact name of Registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**84-3199512**  
(I.R.S. Employer  
Identification No.)

**2280 Inwood Road**  
**Dallas, TX 75235**  
(Address of principal executive offices)(Zip code)

**2020 Equity Incentive Plan**  
**2020 Stock Incentive Plan**  
**2020 Employee Stock Purchase Plan**  
(Full title of the plans)

**RA Session II**  
**President and Chief Executive Officer**  
**Taysha Gene Therapies, Inc.**  
**2280 Inwood Road**  
**Dallas TX 75235**  
**(214) 612-0000**  
(Name and address of agent for service)(Telephone number, including area code, of agent for service)

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*Copies to:*

**Divakar Gupta**  
**Darren DeStefano**  
**Brian F. Leaf**  
**Madison A. Jones**  
**Cooley LLP**  
**55 Hudson Yards**  
**New York, NY 10001**  
**Telephone: (212) 479-6000**  
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Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer   
 Non-accelerated filer

Accelerated filer   
 Smaller reporting company   
 Emerging growth company

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 7(a)(2)(B) of the Securities Act.

#### CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered <sup>(1)</sup>	Proposed Maximum Offering Price per Share	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, par value \$0.00001 per share				
– Outstanding under the 2020 Equity Incentive Plan (Options)	16,342 <sup>(2)</sup>	\$14.90 <sup>(9)(a)</sup>	\$243,495.80	\$31.61
– Outstanding under the 2020 Equity Incentive Plan (Restricted Stock Awards)	769,058 <sup>(3)</sup>	\$5.28 <sup>(9)(b)</sup>	\$4,060,626.24	\$527.07
– Outstanding under the 2020 Equity Incentive Plan (Restricted Stock Units)	2,850,053 <sup>(4)</sup>	\$14.90 <sup>(9)(c)</sup>	\$42,465,789.70	\$5,512.06
– Outstanding under the 2020 Stock Incentive Plan (Options)	169,000 <sup>(5)</sup>	\$20.00 <sup>(9)(d)</sup>	\$3,380,000	\$438.72
– Shares reserved for future grant under the 2020 Stock Incentive Plan	3,431,009 <sup>(6)(7)</sup>	\$20.00 <sup>(9)(d)</sup>	\$68,620,180.00	\$8,906.90
– Shares reserved for future grant under the 2020 Employee Stock Purchase Plan	362,000 <sup>(8)</sup>	\$17.00 <sup>(9)(e)</sup>	\$6,154,000.00	\$798.79
<b>Total</b>	<b>7,597,462</b>		<b>\$124,924,091.74</b>	<b>\$16,215.15</b>

- (1) Pursuant to Rule 416(a) of the Securities Act of 1933, as amended (the “*Securities Act*”), this Registration Statement shall also cover any additional shares of Registrant’s common stock, par value \$0.00001 (the “*Common Stock*”), that become issuable under the Registrant’s 2020 Equity Incentive Plan, as amended (the “*Pre-IPO Plan*”), 2020 Stock Incentive Plan (the “*IPO Plan*”) or 2020 Employee Stock Purchase Plan (the “*2020 ESPP*”) by reason of any stock dividend, stock split, recapitalization or other similar transaction that results in an increase in the number of outstanding shares of Registrant’s Common Stock.
- (2) Represents shares of Common Stock reserved for issuance pursuant to outstanding stock option awards under the Pre-IPO Plan.
- (3) Represents shares of Common Stock issued pursuant to outstanding restricted stock awards under the Pre-IPO Plan.
- (4) Represents shares of Common Stock reserved for issuance pursuant to outstanding restricted stock unit awards (“*RSUs*”) under the Pre-IPO Plan.
- (5) Represents shares of Common Stock reserved for issuance pursuant to outstanding stock option awards under the IPO Plan.
- (6) Pursuant to the terms of the IPO Plan, any shares (A) subject to outstanding awards originally granted under the Pre-IPO Plan that: (i) expire or terminate for any reason prior to exercise or settlement; (ii) are forfeited because of the failure to meet a contingency or condition required to vest such shares or otherwise return to the Registrant; or (iii) are reacquired, withheld (or not issued) to satisfy a tax withholding obligation in connection with an award or to satisfy the purchase price or exercise price of a stock award shall become available for future issuance pursuant to the IPO Plan.
- (7) The number of shares reserved under the IPO Plan will automatically increase on the first day of each fiscal year, starting on January 1, 2021 and continuing through January 1, 2030, in an amount equal to 5.0% of the total number of shares of the Registrant’s capital stock outstanding on December 31<sup>st</sup> of the preceding calendar year; provided, however, that the Board of Directors of the Registrant (the “*Board*”) may act prior to January 1 of a given year to provide that the increase for such year will be a lesser number of shares. The issuance of such shares is not being registered on this Registration Statement.
- (8) The number of shares reserved under the 2020 ESPP will automatically increase on the first day of each fiscal year, starting on January 1, 2021 and continuing through January 1, 2030, in an amount equal to the lesser of (i) 1.0% of the total number of shares of the Registrant’s common stock outstanding on December 31<sup>st</sup> of the preceding calendar year and (ii) 724,000 shares; provided, however, that the Board may act prior to January 1 of a given year to provide that the increase for such year will be a lesser number of shares. The issuance of such shares is not being registered on this Registration Statement.
- (9) Estimated solely for the purpose of calculating the amount of the registration fee pursuant to Rule 457(h) promulgated under the Securities Act. The offering price per share and the aggregate offering price are based upon (a) \$14.90, which is the weighted-average exercise price for outstanding options granted under the Pre-IPO Plan, (b) \$5.28, which is the price per share of Common Stock subject to outstanding restricted stock awards under the Pre-IPO Plan, (c) \$14.90, which is the price per share of Common Stock underlying outstanding restricted stock unit awards under the Pre-IPO Plan, (d) \$20.00 which is the Initial Public Offering Price per share of Common Stock set forth on the cover page of the Registrant’s prospectus dated September 23, 2020 relating to its initial public offering and (e) \$17.00, which is the Initial Public Offering Price per share of Common Stock set forth on the cover page of the Registrant’s prospectus dated September 23, 2020 relating to its initial public offering, multiplied by 85%, which is the percentage of the price per share applicable to purchases under the 2020 ESPP.

## PART I

### INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The information specified in Item 1 and Item 2 of Part I of Form S-8 is omitted from this Registration Statement. The documents containing the information specified in Part I of Form S-8 will be delivered to the participants in the plans covered by this Registration Statement as specified by Rule 428(b)(1) under the Securities Act of 1933, as amended (the “*Securities Act*”).

## PART II

### ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE

The following documents filed by Taysha Gene Therapies, Inc. (the “*Registrant*”) with the Securities and Exchange Commission (the “*Commission*”) are incorporated by reference into this Registration Statement:

(a) The Registrant’s [prospectus](#) dated September 23, 2020 filed pursuant to Rule 424(b) under the Securities Act relating to the Registration Statement on Form S-1 (File No. 333-248559), which contains audited financial statements for the Registrant’s latest fiscal year for which such statements have been filed.

(b) The description of the Registrant’s Common Stock which is contained in the Registrant’s Registration Statement on [Form 8-A](#) filed on September 18, 2020 (File No. 001-39536) under the Securities Exchange Act of 1934, as amended (the “*Exchange Act*”), including any amendment or report filed for the purpose of updating such description.

All documents, reports and definitive proxy or information statements filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act (other than Current Reports furnished under Item 2.02 or Item 7.01 of Form 8-K and exhibits furnished on such form that relate to such items) on or after the date of this Registration Statement and prior to the filing of a post-effective amendment to this Registration Statement that indicates that all securities offered hereby have been sold or that deregisters all securities then remaining unsold shall be deemed to be incorporated by reference in this Registration Statement and to be part hereof from the date of filing of such documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any subsequently filed document that also is deemed to be incorporated by reference herein modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

### ITEM 4. DESCRIPTION OF SECURITIES

See the description of the Registrant’s Capital Stock contained in the Registration Statement on Form S-1 (File No. 333-248559).

### ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL

Not applicable.

### ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS

Section 145 of the Delaware General Corporation Law authorizes a court to award, or a corporation’s board of directors to grant, indemnity to directors and officers in terms sufficiently broad to permit such indemnification under certain circumstances for liabilities, including reimbursement for expenses incurred, arising under the Securities Act. The Registrant’s amended and restated certificate of incorporation that will be in effect upon the closing of the initial public offering permits indemnification of our directors, officers, employees and other agents to the maximum extent permitted by the Delaware General Corporation Law, and the Registrant’s amended and restated bylaws that

will be in effect upon the closing of the initial public offering provide that the Registrant will indemnify its directors and executive officers and permit the Registrant to indemnify its other officers, employees and other agents, in each case to the maximum extent permitted by the Delaware General Corporation Law.

The Registrant has entered into indemnification agreements with its directors and officers, whereby it has agreed to indemnify its directors and officers to the fullest extent permitted by law, including indemnification against expenses and liabilities incurred in legal proceedings to which the director or officer was, or is threatened to be made, a party by reason of the fact that such director or officer is or was a director, officer, employee or agent of the Registrant, provided that such director or officer acted in good faith and in a manner that the director or officer reasonably believed to be in, or not opposed to, the best interest of the Registrant. At present, there is no pending litigation or proceeding involving a director or officer of the Registrant regarding which indemnification is sought, nor is the registrant aware of any threatened litigation that may result in claims for indemnification.

The Registrant maintains insurance policies that indemnify its directors and officers against various liabilities arising under the Securities Act and the Securities Exchange Act of 1934, as amended, that might be incurred by any director or officer in his or her capacity as such.

Certain of the Registrant's non-employee directors may, through their relationships with their employers, be insured and/or indemnified against certain liabilities incurred in their capacity as members of the Registrant's board of directors.

**ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED.**

Not applicable.

**ITEM 8. EXHIBITS**

Exhibit Number	Description	Schedule Form	Incorporated by Reference			Filed Herewith
			File Number	Exhibit	Filing Date	
5.1	<a href="#">Opinion of Cooley LLP</a>					X
23.1	<a href="#">Consent of Deloitte &amp; Touche LLP, independent registered public accounting firm</a>					X
23.2	<a href="#">Consent of Cooley LLP (included in Exhibit 5.1)</a>					X
24.1	<a href="#">Power of Attorney (included in signature pages of Registration Statement)</a>					X
99.1	<a href="#">2020 Equity Incentive Plan and Forms of Option Grant Notice and Agreement, Exercise Notice, Early Exercise Notice and Restricted Stock Award Notice (as amended)</a>	S-1	333-248559	10.5	September 17, 2020	
99.2	<a href="#">2020 Stock Incentive Plan and Forms of Stock Option Grant Notice, Stock Option Agreement, Restricted Stock Unit Grant Notice and Restricted Stock Unit Award Agreement</a>	S-1	333-248559	10.6	September 17, 2020	
99.3	<a href="#">2020 Employee Stock Purchase Plan</a>	S-1	333-248559	10.7	September 17, 2020	

## ITEM 9. UNDERTAKINGS

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act;

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement.

(iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

*Provided, however,* that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the registration statement is on Form S-8, and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the registrant pursuant to section 13 or section 15(d) of the Exchange Act that are incorporated by reference in the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered herein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability of the registrant under the Securities Act to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

- (b) The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered herein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Dallas, State of Texas, on this 29th day of September, 2020.

### TAYSHA GENE THERAPIES, INC.

By: /s/ RA Session II

Name: RA Session II

Title: President and Chief Executive Officer

## POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS, that each person whose signature appears below hereby constitutes and appoints RA Session II and Kamran Alam, and each of them, as his true and lawful agents, proxies and attorneys-in-fact, with full power of substitution and resubstitution, for him or her and in his name, place and stead, in any and all capacities, to (i) act on, sign and file with the Securities and Exchange Commission any and all amendments (including post-effective amendments) to this registration statement together with all schedules and exhibits thereto and any subsequent registration statement filed pursuant to Rule 462(b) under the Securities Act of 1933, as amended, together with all schedules and exhibits thereto, (ii) act on, sign and file such certificates, instruments, agreements and other documents as may be necessary or appropriate in connection therewith, (iii) act on and file any supplement to any prospectus included in this registration statement or any such amendment or any subsequent registration statement filed pursuant to Rule 462(b) under the Securities Act of 1933, as amended, and (iv) take any and all actions which may be necessary or appropriate to be done, as fully for all intents and purposes as he might or could do in person, hereby approving, ratifying and confirming all that such agent, proxy and attorney-in-fact or any of his substitutes may lawfully do or cause to be done by virtue thereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the dates indicated.

<u>Name</u>	<u>Position</u>	<u>Date</u>
<u>/s/ RA Session II</u> RA Session II	President, Chief Executive Officer and Director <i>(Principal Executive Officer)</i>	September 29, 2020
<u>/s/ Kamran Alam</u> Kamran Alam	Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i>	September 29, 2020
<u>/s/ Sean P. Nolan</u> Sean P. Nolan	Chairman	September 29, 2020
<u>/s/ Phillip B. Donenberg</u> Phillip B. Donenberg	Director	September 29, 2020
<u>/s/ Paul B. Manning</u> Paul B. Manning	Director	September 29, 2020
<u>/s/ Sukumar Nagendran, M.D.</u> Sukumar Nagendran, M.D.	Director	September 29, 2020





Divakar Gupta  
T: +1 212 479 6474  
dgupta@cooley.com

September 29, 2020

Taysha Gene Therapies, Inc.  
2280 Inwood Road  
Dallas, Texas 75235

Ladies and Gentlemen:

We have represented Taysha Gene Therapies, Inc., a Delaware corporation (the "**Company**"), in connection with the filing by the Company of a Registration Statement on Form S-8 (the "**Registration Statement**") with the Securities and Exchange Commission covering the offering of up to 7,597,462 shares (the "**Shares**") of the Company's Common Stock, par value \$0.00001 per share (the "**Common Stock**"), consisting of (i) 3,635,453 shares of Common Stock issuable pursuant to the Company's 2020 Equity Incentive Plan, as amended (the "**Existing Plan**"), (ii) 3,600,009 shares of Common Stock issuable pursuant to the Company's 2020 Stock Incentive Plan (the "**New Plan**"), and (iii) 362,000 shares of Common Stock issuable pursuant to the Company's 2020 Employee Stock Purchase Plan (together with the Existing Plan and the New Plan, the "**Plans**").

In connection with this opinion, we have examined and relied upon (a) the Registration Statement and the related prospectuses, (b) the Company's Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, each as currently in effect, (c) the Plans, and (d) originals or copies certified to our satisfaction of such records, documents, certificates, memoranda and other instruments as in our judgment are necessary or appropriate to enable us to render the opinion expressed below. We have assumed the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to originals of all documents submitted to us as copies thereof, the accuracy, completeness and authenticity of certificates of public officials, and the due authorization, execution and delivery of all documents by all persons other than the Company where authorization, execution and delivery are prerequisites to the effectiveness thereof. As to certain factual matters, we have relied upon a certificate of an officer of the Company and have not independently verified such matters.

Our opinion is expressed only with respect to the General Corporation Law of the State of Delaware. We express no opinion to the extent that any other laws are applicable to the subject matter hereof and express no opinion and provide no assurance as to compliance with any federal or state securities law, rule or regulation.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued in accordance with the Plans, the Registration Statement and the related prospectuses, will be validly issued, fully paid and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full).

Cooley LLP 55 Hudson Yards, NY 10001  
Phone: (212) 479-6000 Fax: (212) 479-6275 Cooley.com



Taysha Gene Therapies, Inc.  
September 29, 2020  
Page Two

We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley LLP

By: /s/ Divakar Gupta  
Divakar Gupta

Cooley LLP 55 Hudson Yards, NY 10001  
Phone: (212) 479-6000 Fax: (212) 479-6275 Cooley.com

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated July 31, 2020 (September 17, 2020 as to the effects of the stock split described in Note 9), relating to the financial statements of Taysha Gene Therapies, Inc., appearing in Registration Statement No. 333-248559 on Form S-1 of Taysha Gene Therapies, Inc.

**/s/ Deloitte & Touche LLP**

Dallas, Texas  
September 29, 2020