As filed with the Securities and Exchange Commission on January 2, 2025

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

Nkarta, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

47-4515206 (I.R.S. Employer Identification No.)

Nkarta, Inc. 1150 Veterans Boulevard South San Francisco, CA 94080 (Address, including zip code, of Principal Executive Offices)

Nkarta, Inc. 2020 Performance Incentive Plan Nkarta, Inc. Employee Stock Purchase Plan

(Full title of the plan)

Paul J. Hastings Chief Executive Officer Nkarta, Inc. 1150 Veterans Boulevard South San Francisco, CA 94080 (925) 407-1049 (Name, address and telephone number, including area code, of agent for service)

COPY TO:

C. Brophy Christensen, Jr., Esq. O'Melveny & Myers LLP Two Embarcadero Center, 28th Floor San Francisco, California 94111-3823 (415) 984-8700

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 \Box

Non-accelerated filer \blacksquare

Accelerated filer \Box

Smaller reporting company \square

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.

Registration No.333-

EXPLANATORY NOTE

The Registrant is filing this Registration Statement for the purpose of registering additional shares of Common Stock issuable pursuant to the Registrant's 2020 Performance Incentive Plan and the Registrant's Employee Stock Purchase Plan and consists only of those items required by General Instruction E to Form S-8.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The document(s) containing the information specified in Part I of Form S-8 will be sent or given to participants as specified by Rule 428(b)(1) promulgated under the Securities Act of 1933, as amended (the "Securities Act").

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Certain Documents by Reference

The following documents of the Company filed with the Securities and Exchange Commission (the "Commission") are incorporated herein by reference:

- (a) The Company's Registration Statements on Form S-8, filed with the Commission on August 3, 2020, January 15, 2021, March 17, 2022, January 9, 2023, and January 3, 2024 (Commission File Nos. 333-240309, 333-252134, 333-263650, 333-269164, 333-276361 respectively).
- (b) The Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2023, filed with the Commission on March 21, 2024 (Commission File No. 001-39370).
- (c) The portions of the Company's Definitive Proxy Statement on Schedule 14A, filed with the Commission on April 25, 2024 that are incorporated by reference in Part III of the Company's Annual Report on Form 10-K for its fiscal year ended December 31, 2023 (Commission File No. 001-39370).
- (d) The Company's Quarterly Reports on Form 10-Q for the fiscal quarters ended March 31, 2024, June 30, 2024, and September 30, 2024, filed with the Commission on May 9, 2024, August 13, 2024, and November 7, 2024, respectively (each, Commission File No. 001-39370).
- (e) The Company's Current Reports on Form 8-K, filed with the Commission on March 25, 2024, March 28, 2024, June 13, 2024, June 27, 2024, and July 16, 2024 (each, Commission File No. 001-39370, and in each case only as to the information "filed" with the Commission thereunder for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and not as to information "furnished" thereunder).
- (f) The description of the Company's Common Stock contained in its Registration Statement on Form 8-A, filed with the Commission on July 2, 2020 as modified by the description of the Company's Common Stock contained in Exhibit 4.3 of the Company's Annual Report on Form 10-K for the year ended December 31, 2023 (each, Commission File No. 001-39370), and any other amendment or report filed for the purpose of updating such description.

All documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference into this Registration Statement and to be a part hereof from the date of filing of such documents; provided, however, that documents or information deemed to have been furnished and not filed in accordance with Commission rules shall not be deemed incorporated by reference into this Registration Statement. Any statement contained herein or in a document, all or a portion of which is 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 other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or superseded shall not be deemed, except as so modified or amended, to constitute a part of this Registration Statement.

Item 5. Interests of Named Experts and Counsel

Not applicable.

Item 8. Exhibits

The exhibits to this Registration Statement are listed below.

EXHIBIT INDEX

FL:L:4		Incorporated by Reference				
Exhibit Number	Description	Form	File No.	Exhibit	Filing Date	Filed Herewith
4.1	Nkarta, Inc. 2020 Performance Incentive Plan.	S-1/A	333-239301	10.4	7/2/2020	
4.2	Nkarta, Inc. Employee Stock Purchase Plan.	S-1/A	333-239301	10.5	7/2/2020	
5	Opinion of O'Melveny & Myers LLP.					Х
23.1	Consent of Independent Registered Public Accounting Firm.					Х
23.2	Consent of O'Melveny & Myers LLP (see Exhibit 5).					
24	Power of Attorney (included on signature page thereto).					
107	Filing Fee Table.					Х

SIGNATURES

Pursuant to the requirements of the Securities Act, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S8 and has duly caused this Form S-8 Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of South San Francisco, State of California, on January 2, 2025.

NKARTA, INC.

By:

/s/ Paul J. Hastings Paul J. Hastings Chief Executive Officer

POWER OF ATTORNEY

Each person whose signature appears below constitutes and appoints Paul J. Hastings and Alyssa Levin, and each of them, acting individually and without the other, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place, and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments, exhibits thereto and other documents in connection therewith) to this Registration Statement, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or either of them individually, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	Title	Date
/s/ Paul J. Hastings	Chief Executive Officer and Director	January 2, 2025
Paul J. Hastings	(Principal Executive Officer)	
/s/ Alyssa Levin	Chief Financial and Business Officer	January 2, 2025
Alyssa Levin	(Principal Financial and Accounting Officer)	
/s/ Ali Behbahani	Director	January 2, 2025
Ali Behbahani, M.D., M.B.A.		
/s/ Michael Dybbs	Director	January 2, 2025
Michael Dybbs, Ph.D.		
/s/ Simeon George	Director	January 2, 2025
Simeon George, M.D., M.B.A.		
/s/ Leone Patterson	Director	January 2, 2025
Leone Patterson, M.B.A.		
/s/ Zachary Scheiner	Director	January 2, 2025
Zachary Scheiner, Ph.D.		
/s/ Angela Thedinga	Director	January 2, 2025
Angela Thedinga, M.B.A.		
/s/ George Vratsanos	Director	January 2, 2025
George Vratsanos, M.D., F.A.C.R.		

[O'Melveny & Myers letterhead]

January 2, 2025

Nkarta, Inc. 1150 Veterans Boulevard South San Francisco, CA 94080

Re: Registration of Securities of Nkarta, Inc.

Ladies and Gentlemen:

In connection with the registration by Nkarta, Inc. (the "Company") under the Securities Act of 1933, as amended, of up to (i) 3,532,256 shares (the "2020 Plan Shares") of the Company's common stock, \$0.0001 par value per share (the "Common Stock") to be issued or delivered pursuant to the Nkarta, Inc. 2020 Performance Incentive Plan (the "2020 Plan") and (ii) 706,451 shares (the "ESPP Shares" and together with the 2020 Plan Shares, the "Shares") of Common Stock to be issued or delivered pursuant to the Nkarta, Inc. Employee Stock Purchase Plan (the "ESPP" and together with the 2020 Plan, the "Plans"), in each case pursuant to a Registration Statement on Form S-8 (the "Registration Statement") filed with the Securities and Exchange Commission on or about the date hereof, you have requested our opinion set forth below.

In our capacity as counsel, we have examined originals or copies of those corporate and other records of the Company we considered appropriate.

On the basis of such examination and our consideration of those questions of law we considered relevant, and subject to the limitations and qualifications in this opinion, we are of the opinion that the Shares have been duly authorized by all necessary corporate action on the part of the Company and, when issued in accordance with such authorization, the provisions of the applicable Plan and relevant agreements duly authorized by and in accordance with the terms of the applicable Plan, and upon payment for and delivery of the Shares as contemplated in accordance with the Plans, and either (a) the countersigning of the certificate or certificates representing the Shares by a duly authorized signatory of the registrar for the Company's Common Stock, or (b) the book-entry of the Shares by the transfer agent for the Company's Common Stock in the name of The Depository Trust Company or its nominee, the Shares will be validly issued, fully paid and nonassessable.

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

Respectfully submitted,

/s/ O'Melveny & Myers LLP

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the Nkarta, Inc. 2020 Performance Incentive Plan and Nkarta, Inc. Employee Stock Purchase Plan of our report dated March 21, 2024, with respect to the financial statements of Nkarta, Inc. included in its Annual Report (Form 10-K) for the year ended December 31, 2023, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

San Mateo, California January 2, 2025

Calculation of Filing Fee Table

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Form S-8 (Form Type)

(Form Type)

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Nkarta, Inc. (Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered Securities

Security Type	Security Class Title	Fee Calculation Rule	Amount Registered(1)	Proposed Maximum Offering Price Per Unit(2)	Maximum Aggregate Offering Price(2)	Fee Rate	Amount of Registration Fee
Equity	Common Stock, \$0.0001 par value per share, issuable pursuant to the Registrant's 2020 Performance Incentive Plan	Other(3)	3,532,256(4)	\$2.40	\$8,477,414	\$153.1 per \$1,000,00 0	\$1,298
Equity	Common Stock, \$0.0001 par value per share, issuable pursuant to the Registrant's Employee Stock Purchase Plan	Other(3)	706,451(4)	\$2.40	\$1,695,482	\$153.1 per \$1,000,00 0	\$260
Total Offering Amounts			4,238,707		\$10,172,896		\$1,558
Total Fee Offsets							\$0
Net Fee Due							\$1,558

- (1) This Registration Statement covers, in addition to the number of shares of Nkarta, Inc., a Delaware corporation (the "Registrant"), common stock, par value \$0.0001 per share (the "Common Stock"), stated above, options and other rights to purchase or acquire the shares of Common Stock covered by this Registration Statement and, pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), an additional indeterminate number of shares, options and rights that may be offered or issued pursuant to the Nkarta, Inc. 2020 Performance Incentive Plan and the Nkarta, Inc. Employee Stock Purchase Plan (the "Plans") as a result of one or more adjustments under the Plans to prevent dilution resulting from one or more stock splits, stock dividends or similar transactions.
- (2) Estimated in accordance with Rules 457(c) and (h) of the Securities Act solely for the purpose of calculating the registration fee. The offering price per share and the maximum aggregate offering price are based upon the average of the high and low prices of the Registrant's Common Stock as reported on The Nasdaq Global Select Market on December 31, 2024.
- (3) The registration fee has been calculated in accordance with Rule 457(h) and Rule 457(c) promulgated under the Securities Act.
- (4) Represents additional shares of Common Stock that were automatically added to the shares reserved for future issuance under the Plans on January 2, 2025 pursuant to certain provisions of the Plans that provide for an automatic increase in the share reserve each year in accordance with a formula set forth in the applicable Plan.