# **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### **SCHEDULE 13G/A**

**Under the Securities Exchange Act of 1934** (Amendment No. 1)

## NEOLEUKIN THERAPEUTICS, INC.

(Name of Issuer)
Common Stock, \$0.000001 par value
(Title of Class of Securities)
64049K104
(CUSIP Number)
December 31, 2021
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
þ Rule 13d-1(b)
□ Rule 13d-1(c)
□ Rule 13d-1(d)
* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.
The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act

of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the

Notes).

#### CUSIP No. 64049K104

1	Name of Reporting Person				
2	Redmile Group, LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)				
2	CHECK TH	E <b>A</b> PPROP	RIATE BOX IF A IMEMBER OF A GROUP (SEE INSTRUCTIONS)		
	(A) □				
	(B) $\Box$				
3	SEC Use Only				
4	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delawar				
		5	Sole Voting Power		
NUMBER OF SHARES BENEFICIALLY					
		6	SHARED VOTING POWER		
OWNE			4,321,560 <sup>(1)</sup>		
EA		7	Sole Dispositive Power		
REPOR	_				
PERSON WITH		8	SHARED DISPOSITIVE POWER		
			4,321,560 <sup>(1)</sup>		
9	Aggregat	E Amoun	T BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,321,560 (1)				
	4,521,500 17				
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)				
11					
11	Percent of Class Represented by Amount in Row (9)				
	I ERCENT OF GLASS INEPRESENTED BY AMOUNT IN NOW (3)				
	9.9% <sup>(2)</sup>				
12	Type of Reporting Person (See Instructions)				
	IA, OO				
	1Л, ОО				

<sup>(1)</sup> Redmile Group, LLC's beneficial ownership of the Issuer's common stock ("Common Stock") is comprised of 3,490,835 shares of Common Stock owned by Certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any. Subject to the Beneficial Ownership Blocker (as defined below), Redmile Group, LLC may also be deemed to beneficially own 1,180,000 shares of Common Stock issuable upon exercise of certain Pre-Funded Warrants to Purchase Common Stock (the "Warrants"). Pursuant to the terms of the Warrants, the Issuer may not effect any exercise of any Warrant, and a holder of a Warrant does not have the right to exercise any portion of the Warrant held by such holder, to the extent that, after giving effect to the attempted exercise set forth in a notice of exercise, such holder, together with such holder's affiliates and any other person whose beneficial ownership of Common Stock would be aggregated with such holder's for the purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the applicable regulations of the Securities and Exchange Commission (the "SEC"), including any "group" of which such holder is a member, would beneficially own a number of shares of Common Stock the Beneficial Ownership Limitation (the "Beneficial Ownership Blocker"). The "Beneficial Ownership Limitation" is 9.99% of the shares of Common Stock then issued and outstanding, which percentage may be changed at a holder's election upon 61 days' notice to the Issuer. The 4,321,560 shares of Common Stock repor

<sup>(2)</sup> Percentage based on: (i) 42,428,134 shares of Common Stock outstanding as of November 3, 2021, as reported by the Issuer in its Form 10-Q for the period ending September 30, 2021 and filed with the SEC on November 4, 2021 (the "Form 10-Q"), plus (ii) 830,725 shares of Common Stock issuable upon exercise of certain of the Warrants, which, due to the Beneficial Ownership Limitation, is the maximum number of shares that could be issued upon exercise of the Warrants.

#### CUSIP No. 64049K104

1	Name of Reporting Person				
	Jeremy (	C. Green			
2			RIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)		
	(A) 🗆				
	(B) $\square$				
3	SEC Use	Oniv			
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CITIZENSHIP OR PLACE OF ORGANIZATION			CE OF ODC ANIZATION		
4	CITIZENSII	IF OK I LA	CE OF ORGANIZATION		
United Kingdom					
			Sole Voting Power		
		3	SOLE VOTING POWER		
			0		
NUMB	ER OF	6	SHARED VOTING POWER		
SHA	_	ь	SHARED VOTING POWER		
	CIALLY				
OWNE			4,321,560 <sup>(3)</sup>		
EAG		7	Sole Dispositive Power		
REPORTING PERSON WITH			0		
		8	SHARED DISPOSITIVE POWER		
			4,321,560 (3)		
9	Accrecat	TE AMOUN	IT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2 IGGREGA	L I LIVIOUN	A DESCRIPTION OF LIGHT REPORTED IN LIGHT OF THE OWNER OF THE CONTROL OF THE OWNER OWN		
	4,321,560 <sup>(3)</sup>				
10			REGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
10	CHECK IF	THE AGG	REGATE AMOUNT IN NOW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)		
11	Percent of Class Represented by Amount in Row (9)				
11	PERCENT C	OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)		
	9.9% <sup>(4)</sup>				
12	Type of Reporting Person (See Instructions)				
	IN, HC				

<sup>(3)</sup> Jeremy C. Green's beneficial ownership of Common Stock is comprised of 3,490,835 shares of Common Stock owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any. Subject to the Beneficial Ownership Blocker, Mr. Green may also be deemed to beneficially own an aggregate of 1,180,000 shares of Common Stock issuable upon exercise of the Warrants. Pursuant to the terms of the Warrants, the Issuer may not effect any exercise of any Warrant, and a holder of a Warrant does not have the right to exercise any portion of the Warrant held by such holder, to the extent that, after giving effect to the attempted exercise set forth in a notice of exercise, such holder, together with such holder's affiliates and any other person whose beneficial ownership of Common Stock would be aggregated with such holder's for the purposes of Section 13(d) of the Exchange Act, and the applicable regulations of the SEC, if the Beneficial Ownership Blocker applies. The 4,321,560 shares of Common Stock reported as beneficially owned by Redmile Group, LLC in this Schedule 13G represents 9.99% of the outstanding shares of Common Stock (calculated in accordance with

<sup>(4)</sup> Percentage based on: (i) 42,428,134 shares of Common Stock outstanding as of November 3, 2021, as reported by the Issuer in its Form 10-Q, plus (ii) 830,725 shares of Common Stock issuable upon exercise of certain of the Warrants, which, due to the Beneficial Ownership Limitation, is the maximum number of shares that could be issued upon exercise of the Warrants.

(a)	Name of Issuer					
	Neoleukin Therapeutics, Inc.					
(b)	Address of Issuer's Principal Executive Offices					
	188 East Blaine Street, Suite 450 Seattle, Washington 98102					
Item 2.						
(a)	Names of Persons Filing					
	Redmile Group, LLC Jeremy C. Green					
(b)	Address of Principal Business office or, if None, Residence					
	Redmile Group, LLC One Letterman Drive Building D, Suite D3-300 The Presidio of San Francisco San Francisco, California 94129					
	Jeremy C. Green c/o Redmile Group, LLC One Letterman Drive Building D, Suite D3-300 The Presidio of San Francisco San Francisco, California 94129					
(c)	Citizenship					
	Redmile Group, LLC: Delaware Jeremy C. Green: United Kingdom					
(d)	Title of Class of Securities					
	Common Stock, \$0.000001 par value					
(e)	CUSIP Number					
	64049K104					
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) $\square$ Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);					
	(b) $\square$ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);					
	(c) $\square$ Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);					

Item 1.

	(d)		Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8);			
	(e)	X	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)	X	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);			
	(k)		Group, in accordance with $\S$ 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with $\S$ 240.13d-1(b)(1)(ii)(J) please specify the type of institution:			
Item 4.	Own	ership.				
	(a)	Amo	unt beneficially owned:			
			Redmile Group, LLC – 4,321,560* Jeremy C. Green – 4,321,560*			
	(b)	Perce	Percent of class:			
			Redmile Group, LLC – 9.9%**  Jeremy C. Green – 9.9%**			
	(c)	Num	Number of shares as to which Redmile Group, LLC has:			
		(i)	Sole power to vote or to direct the vote:			
			0			
		(ii)	Shared power to vote or to direct the vote:			
			4,321,560*			
		(iii)	Sole power to dispose or to direct the disposition of:			
			0			
		(iv)	Shared power to dispose or to direct the disposition of:			
			4,321,560*			
	Num	Number of shares as to which Jeremy C. Green has:				
		(i)	Sole power to vote or to direct the vote:			
			0			

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

4,321,560\*

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

0

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

4,321,560\*

- \* Jeremy C. Green's beneficial ownership of Common Stock is comprised of 3,490,835 shares of Common Stock owned by certain private investment vehicles and/or separately managed accounts managed by Redmile Group, LLC, which shares of Common Stock may be deemed beneficially owned by Redmile Group, LLC as investment manager of such private investment vehicles and/or separately managed accounts. The reported securities may also be deemed beneficially owned by Jeremy C. Green as the principal of Redmile Group, LLC. Redmile Group, LLC and Mr. Green each disclaim beneficial ownership of these shares, except to the extent of its or his pecuniary interest in such shares, if any. Subject to the Beneficial Ownership Blocker, Mr. Green may also be deemed to beneficially own an aggregate of 1,180,000 shares of Common Stock issuable upon exercise of the Warrants. Pursuant to the terms of the Warrants, the Issuer may not effect any exercise of any Warrant, and a holder of a Warrant does not have the right to exercise any portion of the Warrant held by such holder, to the extent that, after giving effect to the attempted exercise set forth in a notice of exercise, such holder, together with such holder's affiliates and any other person whose beneficial ownership of Common Stock would be aggregated with such holder's for the purposes of Section 13(d) of the Exchange Act, and the applicable regulations of the SEC, if the Beneficial Ownership Blocker applies. The 3,490,835 shares of Common Stock reported as beneficially owned by Redmile Group, LLC in this Schedule 13G represents 9.99% of the outstanding shares of Common Stock.
- \*\* Percentage based on: (i) 42,428,134 shares of Common Stock outstanding as of November 3, 2021, as reported by the Issuer in its Form 10-Q, plus (ii) 830,725 shares of Common Stock issuable upon exercise of certain of the Warrants, which, due to the Beneficial Ownership Limitation, is the maximum number of shares that could be issued upon exercise of the Warrants.

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following  $\Box$ 

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

N/A.

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

See the response to Item 4.

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

N/A

Item 9. Notice of Dissolution of Group.

N/A

#### Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under § 240.14a-11.

### **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.

Date: February 14, 2022

### Redmile Group, LLC

By: /s/ Jeremy C. Green

Name: Jeremy C. Green Title: Managing Member

/s/ Jeremy C. Green

Jeremy C. Green

#### **Joint Filing Agreement**

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the undersigned hereby agree to the joint filing on behalf of each of them of a Statement on Schedule 13G (including any and all amendments thereto, the "Schedule 13G") relating to the Common Stock, \$0.00001 par value per share, of Neoleukin Therapeutics, Inc., which may be deemed necessary pursuant to Regulation 13D or 13G promulgated under the Exchange Act.

The undersigned further agree that each party hereto is responsible for the timely filing of the Schedule 13G, and for the accuracy and completeness of the information concerning such party contained therein; provided, however, that no party is responsible for the accuracy or completeness of the information concerning any other party, unless such party knows or has a reason to believe that such information is inaccurate.

It is understood and agreed that a copy of this Joint Filing Agreement shall be attached as an exhibit to the Schedule 13G, filed on behalf of each of the parties hereto.

IN WITNESS WHEREOF, each of the undersigned has executed this Joint Filing Agreement as of the 14th day of February, 2022.

#### REDMILE GROUP, LLC

/s/ Jeremy C. Green
Name: Jeremy C. Green
Title: Managing Member
/s/ Jeremy C. Green

JEREMY C. GREEN