UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K							
	CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934						
Date of R	Report (Date of earliest event reported): July 9,	2024					
	Sma Therapeutics I						
Delaware (State or other jurisdiction of incorporation)	001-36296 (Commission File Number)	26-2025616 (IRS Employer Identification No.)					
3675 Market Street, Suite 401 Philadelphia, PA (Address of Principal Executive Offices)		19104 (Zip Code)					
	telephone number, including area code: (267) 4 time or Former Address, if Changed Since Last						
Check the appropriate box below if the Form 8-K filing following provisions (see General Instruction A.2 below		oligation of the registrant under any of the					
□ Soliciting material pursuant to Rule 14a-12□ Pre-commencement communications pursu	425 under the Securities Act (17 CFR 230.425) 2 under the Exchange Act (17 CFR 240.14a-12) 1 under the Rule 14d-2(b) under the Exchange Act (17 1 under the Exchange Act (17						
Securities registered pursuant to Section 12(b) of the A	et:						
Title of each class	Trading Symbol(s)	Name of exchange on which registered					
Common Stock, \$0.001 par value Indicate by check mark whether the registrant is an emochapter) or Rule 12b-2 of the Securities Exchange Act of		The Nasdaq Stock Market LLC the Securities Act of 1933 (§230.405 of this					
Emerging growth company □	, ,						
If an emerging growth company, indicate by check mar or revised financial accounting standards provided purs		led transition period for complying with any nev					

Item 8.01. Other Events.

On July 9, 2024, Carisma Therapeutics Inc. (the "Company") will announce new analysis related to the Company's Phase 1 clinical trial of CT-0508, a human epidermal growth factor receptor 2 ("HER2") targeted chimeric antigen receptor macrophage for the treatment of HER2 overexpressing cancers, during a presentation at the Stifel Virtual Cell Therapy Forum. An excerpt from the presentation is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

The Company is providing the following analysis related to its Phase 1 clinical trial of CT-0508:

The Company recently completed analysis of circulating tumor DNA ("ctDNA") from 13 patients enrolled in groups 1 and 2. Based on preliminary results assessed to date, the Company observed that 75% (n=6/8) of evaluable HER2 3+ patients experienced a ctDNA reduction, indicating direct tumor killing activity. Zero percent (n=0/5) of evaluable HER2 2+ patients experienced a ctDNA reduction. In the 6 patients that experienced a ctDNA reduction, the median decrease was 81% (range 33%-93% decrease in ctDNA 4-weeks post treatment with CT-0508).

While the results from this early clinical trial data are both preliminary and limited, the Company believes that repeat dosing of its follow-on product, CT-0525, in patients with HER2 overexpressing cancers could prolong pharmacologic efficacy and response.

Consistent with prior disclosure, enrollment of new patients in the Company's Phase 1 clinical trial of CT-0508 and its sub-study utilizing CT-0508 in combination with pembrolizumab was halted in April 2024 in connection with the implementation of the Company's revised operating plan. As of July 2024, all activities with respect to the patients enrolled in the Phase 1 clinical trial and sub-study have been completed. The Company only has preliminary results from the Phase 1 clinical trial and expects clinical data updates in the third quarter of 2024.

Item 9.01. Financial Statements and Exhibits.

<u>Exhibit</u> <u>Number</u>	<u>Description</u>
99.1 104	Excerpt from Company Presentation, dated July 2024. Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

CARISMA THERAPEUTICS INC.

By: /s/ Steven Kelly

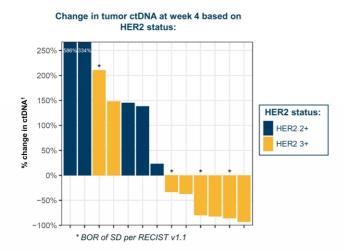
Steven Kelly

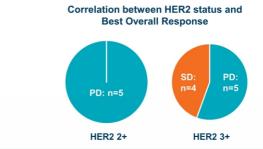
President and Chief Executive Officer

Date: July 9, 2024

CT-0508 Monotherapy

Clinical Activity Observed III FIERA OF LANGUAGE Correlation of target expression and clinical activity supports mechanism of action Correlation be





KEY TAKEAWAYS

- Best Overall Response of Stable Disease was seen in HER2 3+ (n=4/9, 44% SD)
- All pts with HER2 2+ tumors had PD

Clinical activity as measured by imaging or ctDNA correlates with HER2 expression

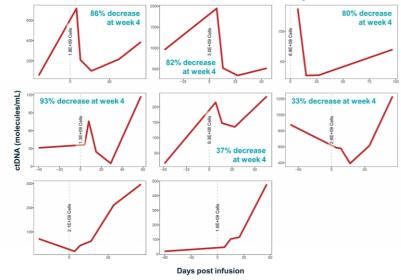


ctDNA: Circulating Tumor DNA; PFS: Progression-Free Survival; Signatera assay used for CtDNA; ¹ From day 8 to week 4

ctDNA Reduction Observed in 75% of HER2 3+ Patients

ctDNA reductions are clear evidence of clinical activity

ctDNA in 8 evaluable HER2 3+ pts



KEY TAKEAWAYS

- 75% (6/8) of HER2 3+ patients exhibited a decrease in ctDNA, indicating direct tumor killing activity
- · Up to 93% decrease in ctDNA levels
- Decreases were observed in multiple tumor types
- Peak response occurred ~4 weeks post CT-0508 infusion, suggesting potential timing for redosing
- Consistent with clinical assessments, no decreases in ctDNA were observed in HER2 2+ patients



ctDNA: Circulating Tumor DNA; ctDNA is a biomarker of tumor burden; dotted grey line is infusion of CT-0508

Operating Plan and Corporate Milestones Capital efficient R&D program designed to reach significant value inflection points

THERAPEUTIC AREA	PRODUCT CANDIDATE	PLATFORM	RECENT AND ANTICIPATED MILESTONES		
Ex Vivo Oncology					
HER2+ solid tumors	CT-0525	CAR-Monocyte (1st Gen CAR)	4Q'23	IND cleared	√
			2Q'24	Treat first patient	✓
			4Q'24	Report initial data from Phase 1 study	
	CT-0508*	CAR-Macrophage (1st Gen CAR)	3Q'24	Report data from Phase 1 combination sub-study	
In Vivo Oncology					
GPC3+ TBD solid tumors			4Q'23	Nominate first in vivo CAR-M lead candidate	✓
	TBD	CAR-Macrophage + mRNA/LNP	2Q'24	Development Candidate nominated	✓
			TBD	IND submission	
Oncology	4 Additional Targets ²	CAR-Macrophage + mRNA/LNP	4Q'23	Report proof of concept data for in vivo CAR-M (SITC 2023)	✓
Fibrosis and Immun	ology				
Liver Fibrosis TBD	TDD	TBD Engineered macrophage	2Q'24	Report preclinical proof of concept data (ASGCT 2024)	✓
	IBD		1Q'25	Nominate Development Candidate	
* In late March 2024, Carisma made the decision to cease further development of CT-0508, including monotherapy and in combination with pembrolizumab 1. Target undisclosed; 2. Moderna collaboration has identified 5 total oncology targets, with the option to identify an additional 7 oncology targets					3