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 Report (Date of earliest event reported): January 9, 2023

Stoke Therapeutics, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware (State or other jurisdiction of incorporation or organization) 001-38938 (Commission File Number) 47-1144582 (I.R.S. Employer Identification No.)

45 Wiggins Ave Bedford, Massachusetts (Address of principal executive offices)

01730 (Zip Code)

Registrant's telephone number, including area code: (781) 430-8200

Not Applicable (Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the

following provisions:

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

D Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

D Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

	Trading	Name of each exchange	
Title of each class	Symbol(s)	on which registered	
Common Stock, \$0.0001 par value per share	STOK	Nasdaq Global Select Market	

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company \boxtimes

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 13(a) of the Exchange Act. \Box

Item 7.01. Regulation FD.

On January 9, 2023, Stoke Therapeutics, Inc., a Delaware corporation (the "Company"), posted an updated corporate presentation with additional information to its website, in advance of making a formal presentation of such information (the "Presentation") at the J.P. Morgan Healthcare Conference on January 10, 2023. The Company is furnishing a copy of the Presentation, a full copy of which is attached hereto as Exhibit 99.1.

The information furnished with this report, including Exhibit 99.1, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference into any other filing under the Exchange Act or the Securities Act of 1933, as amended, except as expressly set forth by specific reference in such a filing.

Item 8.01 Other Events.

The Presentation provides a business update with respect to the anticipated timing of certain milestones, including the following:

STK-001: Dravet Syndrome

- Data from patients treated with multiple doses of 45mg is expected in mid-2023;
- Data from patients treated with multiple doses of 70mg is expected in the second half of 2023; and
- The Company expects to complete Phase 1/2a in 2023 to enable a Phase 3 program in 2024.

STK-002: Autosomal Dominant Optic Atrophy ("ADOA")

 Clinical Trial Application submission in the United Kingdom for planned Phase 1/2 study in patients with ADOA is expected in the first half of 2023 to enable the Company to start a Phase 1/2 study in 2024.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Presentation, dated as of January 2023.
104	Cover Page Interactive Data File (the cover page XBRL tags are embedded within the inline XBRL document).

Forward-Looking Statements

This Current Report on Form 8-K contains forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 and other federal securities laws. Any statements contained herein that do not describe historical facts, including, but not limited to, statements regarding the ability of STK-001 to treat the underlying causes of Dravet syndrome and reduce seizures or show improvements in non-seizure comorbidities at the indicated dosing levels or at all, the ability of STK-002 to treat the underlying causes of Autosomal Dominant Optic Atrophy, and the timing and expected progress of clinical trials, data readouts and presentations for STK-001 and STK-002. Statements including words such as "anticipate," "plan," "will," "continue," "expect," or "ongoing" and statements in the future tense are forward-looking statements. These forward-looking statements involve risks and uncertainties, as well as assumptions, which, if they prove incorrect or do not fully materialize, could cause the Company's results to differ materially from those expressed or implied by such forward-looking statements, including, but not limited to, risks and uncertainties related to: the Company's ability to advance, obtain regulatory approval of, and ultimately commercialize its produce candidates; the timing of data readouts and interim and final results of preclinical and clinical trials; positive results in a clinical trial may not be replicated in subsequent trials or successes in early stage clinical trials may not be predictive of results in later stage trials; preliminary interim data readouts of ongoing trials may show results that change when such trials are completed; the Company's ability to fund development activities and achieve development goals into 2025; the Company's ability to protect its intellectual property; the direct and indirect impacts of the ongoing COVID-19 pandemic and its variants on the Company's business; and other risks and uncertainties described under the heading "Risk Factors

SIGNATURE

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.

STOKE THERAPEUTICS, INC.

Date: January 9, 2023

By: /s/ Stephen J. Tulipano Stephen J. Tulipano Chief Financial Officer

Stoke Therapeutics

NASDAQ: STOK

Edward M. Kaye, M.D. Chief Executive Officer

41st Annual J.P. Morgan Healthcare Conference January 10, 2023

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Exhibit 99.1

Disclaimer



This presentation has been prepared by Stoke Therapeutics, Inc. ("Stoke" or "us") for informational purposes only and not for any other purpose. Nothing contained in this presentation is, or should be construed as, a recommendation, promise or representation by the presenter or Stoke or any officer, director, employee, agent or advisor of Stoke. This presentation does not purport to be all-inclusive or to contain all of the information you may desire. Information provided in this presentation speaks only as of the date hereof. Stoke assumes no obligation to publicly update any information or forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future developments, subsequent events, or circumstances after the date hereof, or to reflect the occurrence of unanticipated events.

This presentation contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to, the ability of STK-001 to treat the underlying causes of Dravet syndrome and reduce seizures or show improvements in non-seizure comorbidities at the indicated dosing levels or at all, the ability of STK-002 to treat the underlying causes of Autosomal Dominant Optic Atrophy (ADOA), and the timing and expected progress of clinical trials, data readouts and presentations for STK-001 and STK-002. Statements including words such as "anticipate," "plan," "will," "continue," "expect," or "ongoing" and statements in the future tens are forward-looking statements. These forward-looking statements, and uncertainties, as well as assumptions, which, if they prove incorrect or do not fully materialize, could cause our results to differ materially from those expressed or implied by such forward-looking statements, including, but not limited to, risks and uncertainties related to: Stoke's ability to advance, obtain regulatory approval of, and ultimately commercialize its produce candidates; the timing of data readouts and interim and final results of preclinical and clinical trials; positive results in a clinical trial may not be replicated in subsequent trials or successes in early stage clinical trials may not be predictive of results in later stage trials; preliminary interim data readouts of ongoing trials may show results that change when such trials are completed; Stoke's ability to fund development activities and achieve development goals into 2025; Stoke's ability to protect its intellectual property; the direct and indirect impacts of the ongoing COVID-19 pandemic and its variants on Stoke's business; and other risks and uncertainties for the weight for the year ended December 31, 2021, its quarterly reports on Form 10-Q and the other documentation Stoke files from time to time with the Securities and Exchange Commission. Thes

By attending or receiving this presentation you acknowledge that you are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date such statements are made; you will be solely responsible for your own assessment of the market and our market position; and that you will conduct your own analysis and be solely responsible for forming your own view of the potential future performance of Stoke.



OUR GOAL:

Upregulate protein expression to treat the underlying cause of severe genetic diseases

Stoke's pipeline offers potential first-in-class disease modifying new medicines for diseases caused by protein insufficiency

STK-001 for Dravet syndrome

A severe and progressive genetic epilepsy

STK-002 for Autosomal Dominant Optic Atrophy (ADOA)

The most common inherited optic nerve disorder

Rett syndrome, Syngap1 syndrome

Severe and rare genetic neurodevelopmental diseases

And beyond...

~6,500 additional genes with TANGO target signatures



Advantages of Stoke's Approach vs. Other Genetic Approaches

Selectively boosts expression only in tissues where the protein is normally expressed



Does not alter DNA



No observed unwanted off-target genetic effects





Utility across small and large gene targets and mutations



Simple and scalable manufacturing



Dravet Syndrome: A Severe, Progressive Genetic Epilepsy



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¹ Sudden Unexpected Death in Epilepsy

Sources: 2018 Health Advances Report; Djémié et al., Molecular Genetics & Genomic Medicine, 2016; Lagae et al., Developmental Medicine & Child Neurology, 2017; Nabbout et al., Orphanet Journal of Rare Diseases, 2013

Current Treatment Paradigm is Burdensome and Ineffective



Most patients end up on 3 or more anti-seizure medicines (ASM)





Our Goal: Transform the Treatment of Dravet Syndrome by STOKE Targeting the Underlying Cause of the Disease, Not Just the Seizures

Multiple medicines available for No medicines available for Syndrome management Seizure management Available medicines used to control seizures: STK-001 Felbamate Acetazolamide Rufinamide ٠ Benzodiazepines • Fenfluramine • Stiripentol ٠ The only potential disease-modifying • Brivaracetam • Lamotrigine Topiramate approach currently in the clinic . Cannabidiol • Levetiracetam • Valproate products • Carbamazepine • Mesuximide Zonisamide Oxcarbazepine Clobazam Ethosuximide • Phenytoin

Despite these treatments, seizures are not adequately controlled in 90% of patients



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Our entire life has been impacted by this diagnosis. Our family has been disrupted. Our livelihood has been impacted. Our future is unknown, and the unknown can be so consuming.

– Jennifer MK., Mom of Daughter with Dravet syndrome

Voice of the Patient Report Published by the Dravet Syndrome Foundation, May 2022

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Dravet Syndrome is More Than "Just Seizures"









Intellectual Disability & Developmental Delays

"Over time, we have seen **slow, steady decline** in all areas, from speech, to mobility, endurance, loss of energy, tolerance for stimulation, stamina, etc."

Language & Speech Disturbances

"At age 19, [our son] stopped talking, seemingly **losing his capacity for speech** overnight. Most days he is silent, and though he can understand simple conversation he is largely **unable to express himself**."

Movement & Balance

"We're disappointed when [our son's] physical activity is limited and the short walk or visit that we plan with his grandmothers must now be changed to a longer **wheelchair ride**."

Sleep Abnormalities

"Every single night, he has seizures in his sleep. In addition to all of the other comorbidities of DS, he's robbed of the basic human necessity of getting a good night's sleep. This impacts our entire family, as it is hard to function on so little sleep day after day."

Source: Voice of the Patient Report Published by the Dravet Syndrome Foundation, May 2022



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Potential disease-modifying gene therapies in SCN1A-positive Dravet syndrome....include antisense oligonucleotide (STK-001)...are positioned to improve not only seizure control, but by targeting the underlying cause and restoring native gene expression, could also address the equally important comorbidities that so often negatively impact patients living with epilepsy.

 Joseph E. Sullivan, M.D., Professor of Neurology and Pediatrics and Director of the Pediatric Epilepsy Center of Excellence at the University of California San Francisco, and a prominent researcher into Dravet syndrome

> Genetic Testing in Patients With Epilepsy May Impact Treatment and Improve Outcomes, Sullivan, JAMA Neurology, 2022

> > © Copyright 2023 Stoke Therapeutics 11

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Preclinical Findings Support Disease Modifying Potential of STK-001 ST HKE

Significant reductions in premature mortality and seizure frequency in DS mice after a single dose



Sources: Antisense oligonucleotides increase Scn1a expression and reduce seizures and SUDEP incidence in a mouse model of Dravet syndrome. Sci. Transl. Med. 12, eaaz6100 (2020). Targeted Augmentation of Nuclear Gene Output (TANGO) of SCN1A reduces seizures and rescues parvalbumin positive interneuron firing frequency Copyright 2023 Stoke Therapeutics 12 in a mouse model of Dravet syndrome (AES 2020). TANGO oligonucleotides for the treatment of Dravet Syndrome: Safety, biodistribution and pharmacology in the non-human primate (AES 2019).

Reductions in Convulsive Seizure Frequency Observed in Patients Treated With STK-001 On Top of Multiple Anti-Seizure Medicines



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Source: MONARCH and ADMIRAL Interim Analyses: Phase 1/2a Studies Investigating Safety and Drug Exposure of STK-001, an Antisense Oligonucleotide (ASO), in Children and © Copyright 2023 Stoke Therapeutics 13 Adolescents with Dravet Syndrome (DS) (AES 2022).

Reductions in Convulsive Seizure Frequency Observed Across Age Groups Taking Multiple Doses of STK-001



74% Median seizure reduction observed in younger patients



Source: MONARCH and ADMIRAL Interim Analyses: Phase 1/2a Studies Investigating Safety and Drug Exposure of STK-001, an Antisense Oligonucleotide (ASO), in Children and © Copyright 2023 Stoke Therapeutics 14 Adolescents with Dravet Syndrome (DS) (AES 2022).

67% (4/6) Patients Experienced >50% Reduction in Convulsive Seizure Frequency with Three Doses of STK-001 (45mg)





Source: MONARCH and ADMIRAL Interim Analyses: Phase 1/2a Studies Investigating Safety and Drug Exposure of STK-001, an Antisense Oligonucleotide (ASO), in Children and Copyright 2023 Stoke Therapeutics 15
Adolescents with Dravet Syndrome (DS) (AES 2022). Reductions in Seizure Frequency Were Maintained with Ongoing STK-001 Treatment





Source: SWALLOWTAIL: An Open-Label Extension (OLE) Study for Children and Adolescents with Dravet Syndrome (DS) who Previously Participated in a Study of Antisense Oligonucleotide (ASO) STK-001 (AES 2022).

Improvements in Non-Seizure Comorbidities Measured by the BRIEF-P Indicate the Potential for Disease Modification





As measured by Behavior Rating Inventory of Executive Function–Preschool Version, an assessment of pediatric executive function. Sources: Twelve-month Analysis of BUTTERFLY: An Observational Study to Investigate Cognition and Other Non-seizure Comorbidities in Children and Adolescents with Dravet Syndrome (DS) (AES 2022). SWALLOWTAIL: An Open-Label Extension (OLE) Study for Children and Adolescents with Dravet Syndrome (DS) who Previously Participated in a Study of Antisense Oligonucleotide (ASO) STK-001 (AES 2022).



Summary of Key Ph1/2a Interim Data

- STK-001 Has Potential to Address the Genetic Cause of Dravet Syndrome
- Single and multiple doses of STK-001 up to 45mg were well-tolerated
- 55% median reduction in convulsive seizurefrequency observed in patients treated with three doses of STK-001 (45mg)
 - Reductions in seizure frequency were maintained with ongoing treatment
- Early indication of improvements in non-seizure comorbidities as measured by BRIEF-P*

*Behavior Rating Inventory of Executive Function–Preschool Version, an assessment of pediatric executive function Sources: MONARCH and ADMIRAL Interim Analyses: Phase 1/2a Studies Investigating Safety and Drug Exposure of STK-001, an Antisense Oligonucleotide (ASO), in Children and Adolescents with Dravet Syndrome (DS) (AES 2022). SWALLOWTAIL: An Open-Label Extension (OLE) Study for Children and Adolescents with Dravet Syndrome (DS) who Previously © Copyright 2023 Stoke Therapeutics Participated in a Study of Antisense Oligonucleotide (ASO) STK-001 (AES 2022).

Our Pipeline of First-in-Class Disease Modifying Potential MedicinesST

PROGRAM	TARGET	DISCOVERY & PRECLINICAL	PHASE 1/2	PHASE 3	PARTNER
Central Nervous S	ystem				
Dravet Syndrome	SCN1A		STK-001		100% Stoke Global
SYNGAP1 Syndrom	e SYNGAP1				Stoke : Acadia 50:50
Rett Syndrome	MECP2				Acadia Worldwide License
Undisclosed	Undisclosed				Acadia Worldwide License
Ophthalmology					
ADOA	OPA1	STK-002			100% Stoke Global
					Y
OA: Autosomal dominant optic atrophy		© Copyright 2023 Stoke Therapeutics			



2023 Priorities



Advance STK-001 for Dravet Syndrome to Pivotal

- 45mg clinical data anticipated in mid-2023
- 70mg clinical data anticipated in second half of 2023
- Complete Phase 1/2a in 2023 to enable a Phase 3 program in 2024

Advance STK-002 for ADOA

• Submit CTA in the UK in the first half of 2023 to enable Phase 1/2 start in 2024



Develop & Expand Pipeline

- Expand TANGO ASOs as a first-inclass disease-modifying approach for additional genetic diseases
- Execute on collaboration with Acadia to advance Rett syndrome and Syngap1 syndrome programs

ADOA: Autosomal dominant optic atrophy



Current Liquidity Anticipated to Fund Operations into 2025



Cash, Cash Equivalents, Marketable Securities, and Restricted Cash as of 9/30/2022



Common Shares Outstanding

as of 9/30/2022



