

**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): August 12, 2025

BioXcel Therapeutics, Inc.
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation)

001-38410
(Commission File Number)

82-1386754
(I.R.S. Employer
Identification No.)

555 Long Wharf Drive
New Haven, CT 06511
(Address of principal executive offices, including Zip Code)

(475) 238-6837
(Registrant's telephone number, including area code)

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.001	BTAI	The Nasdaq Capital 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

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.

Item 2.02 Results of Operations and Financial Condition.

On August 12, 2025, BioXcel Therapeutics, Inc. (the “Company”) issued a press release announcing its financial results for the three months ended June 30, 2025 and providing a business update. A copy of the Company’s press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K and incorporated herein by reference.

The information disclosed under this Item 2.02, including Exhibit 99.1 hereto, is being furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, nor shall it be incorporated by reference into any registration statement or other document pursuant to the Securities Act of 1933, as amended, except as expressly set forth in such filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Ex.No.	Description
99.1	Press release, dated August 12, 2025
104	Cover Page Interactive Data File - the cover page XBRL tags are 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.

Date: August 12, 2025

BIOXCEL THERAPEUTICS, INC.

/s/ Richard Steinhart
By: Richard Steinhart
Title: Chief Financial Officer

BioXcel Therapeutics Reports Second Quarter 2025 Financial Results and Recent Business Updates

Topline data from SERENITY At-Home Phase 3 trial for acute treatment of agitation associated with bipolar disorders or schizophrenia expected in August

FDA meeting scheduled in August and is intended to support potential sNDA submission for label expansion of IGALMI® in the at-home setting

Publication of non-clinical data in Frontiers in Pharmacology suggests potential applications of BXCL501 in chronic conditions

BioXcel Therapeutics strengthens cash position

NEW HAVEN, Conn., Aug. 12, 2025 — BioXcel Therapeutics, Inc. (Nasdaq: BTAI), a biopharmaceutical company utilizing artificial intelligence to develop transformative medicines in neuroscience, today reported its financial results for the second quarter of 2025 and announced that its SERENITY At-Home pivotal Phase 3 safety trial for acute treatment of agitation associated with bipolar disorders or schizophrenia was complete. Topline results from the study are expected in August.

"We are incredibly excited about the upcoming top-line data readout for our SERENITY At-Home Phase 3 trial – our primary market research and preliminary results regarding the frequency of agitation episodes during the trial suggest a target addressable market meaningfully larger than our original estimate of 23 million agitation episodes in the at-home setting annually," said Vimal Mehta, Ph.D., CEO of BioXcel Therapeutics. "This expanded opportunity estimate presents a significant prospect to help many bipolar disorder and schizophrenia patients, fulfilling our core mission."

BXCL501 Late-Stage Clinical Programs**SERENITY Program**

SERENITY At-Home Phase 3 Trial: The SERENITY At-Home Phase 3 trial is a double-blind, placebo-controlled study designed to evaluate the safety of a 120 mcg dose of BXCL501 for the acute treatment of agitation associated with bipolar disorders or schizophrenia in the at-home setting:

- The trial enrolled more than 200 patients across 22 sites nationwide, with no single site enrolling more than 11% of the total patient population.
 - The vast majority of patients dosed completed the full 12-week study.
 - Data from more than 2,200 agitation episodes was collected.
 - The distribution of enrolled patients was balanced between the two patient populations, bipolar disorders and schizophrenia.
 - The trial received two favorable recommendations from the Data Safety Monitoring Board (DSMB).
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TRANQUILITY Program

- **TRANQUILITY In-Care Phase 3 Trial:** designed as a double-blind, placebo-controlled study to evaluate the efficacy and safety of a 60 mcg dose of BXCL501 for acute treatment of agitation associated with Alzheimer's dementia in the care setting.
 - o The program remains part of the Company's broader development strategy.
 - o The Company is evaluating CROs for trial initiation.

BXCL501 in Chronic Conditions

- Research published in the journal *Frontiers in Pharmacology* showed that BXCL501 caused a significant reduction in behaviors induced by stress in translatable behavioral models related to psychiatric disorders, providing further support for the drug's mechanism of action and potential suitability for broadly addressing stress-related disorders in addition to agitation.

Corporate Updates

IGALMI[®] Market Presence

- The Company is continuing to supply IGALMI[®] to patients and providers in the institutional setting, and build brand awareness, with minimal commercial resources.

Second Quarter 2025 Financial Results

Net revenue from IGALMI[®] was \$120 thousand for the second quarter of 2025, compared to \$1.1 million for the same period in 2024.

Cost of Goods Sold for the second quarter of 2025 was \$107 thousand, compared to \$62 thousand for the same period in 2024. Cost of goods sold is related to the costs to produce, package, and deliver IGALMI[®] to customers, as well as costs related to excess or obsolete inventory. There was \$95 thousand for charges for reserves for excess or obsolete inventory in the three months ended June 30, 2025, compared to none for the same period in 2024.

Research and Development (R&D) expenses were \$10.3 million for the second quarter of 2025, compared to \$8.0 million for the same period in 2024. The increase in expenses was primarily attributable to an increase in clinical trial activity associated with the SERENITY at-home Phase 3 studies and offset by a decrease in personnel related to the company's reprioritization.

Selling, General and Administrative (SG&A) expenses were \$5.6 million for the second quarter of 2025, compared to \$9.5 million for the same period in 2024. The decreased expenses were attributable to a decrease in personnel and related costs, lower professional fees, and lower commercial and marketing costs resulting from reprioritization actions taken in 2024.

Net Loss: BioXcel Therapeutics an operating loss of \$15.9 million and a net loss of \$19.2 million for the second quarter of 2025, compared to an operating loss of \$17.3 million and net loss of \$8.3 million for the same period in 2024**. The Company used \$12.6 million in operating cash during the second quarter of 2025.

Cash and cash equivalents and restricted cash totaled \$18.6 million as of June 30, 2025. This does not include an additional \$11.5 million of gross proceeds from sales pursuant to the company at-the-market program and \$3.6 million received in connection with the exercise of outstanding warrants subsequent to quarter-end.

***In the second quarter of 2024, the loss from operations of \$17.3 million was offset by unrealized gains of \$12 million related to derivative liabilities.*

About BXCL501

Outside of its approved indication by the U.S. Food and Drug Administration as IGALMI[®] (dexmedetomidine) sublingual film, BXCL501 is an investigational proprietary, orally dissolving film formulation of dexmedetomidine, a selective alpha-2 adrenergic receptor agonist. BXCL501 is under investigation by BioXcel Therapeutics for the acute treatment of agitation associated with Alzheimer's dementia and for the acute treatment of agitation associated with bipolar I or II disorder or schizophrenia in the at-home setting. The safety and efficacy of BXCL501 for these investigational uses have not been established. BXCL501 has been granted Breakthrough Therapy designation by the FDA for the acute treatment of agitation associated with dementia and Fast Track designation for the acute treatment of agitation associated with schizophrenia, bipolar disorders, and dementia.

About the SERENITY At-Home Phase 3 Trial

The SERENITY At-Home Phase 3 trial is a double-blind, placebo-controlled study designed to evaluate the safety of a 120 mcg dose of BXCL501 for the acute treatment of agitation associated with bipolar disorders or schizophrenia in the at-home setting. The trial is designed to evaluate 200 patients with a history of agitation episodes residing at home either alone or with caregivers/informants. Patients are self-administering 120 mcg of BXCL501 or placebo when agitation episodes occur over the 12-week trial period, with safety data (adverse events) collected during the trial. In addition, patients or caregivers/informants will complete a modified global impression of severity (mCGIs) and a clinical global impression of change (mCGI-C) two hours after dosing as an exploratory endpoint to evaluate use in the outpatient setting.

About the TRANQUILITY In-Care Phase 3 Trial

The TRANQUILITY In-Care trial is designed as a double-blind, placebo-controlled study to evaluate the efficacy and safety of a 60 mcg dose of BXCL501 over a 12-week period for agitation associated with Alzheimer's dementia in the care setting. The trial is expected to enroll approximately 150 patients 55 years and older who have mild, moderate, or severe dementia with mini-mental state examination scores of 0 to 25 and who reside in skilled nursing facilities, memory care units, or assisted living facilities. Patients will self-administer 60 mcg of BXCL501 or placebo when episodic agitation episodes occur over the trial period. The primary endpoint is expected to be a change from baseline in the Positive and Negative Syndrome Scale-Excitatory Component (PEC) total score at two hours post-first dose. Additional PEC and Clinical Global Impressions – Improvement Scale measurements will also be obtained during the trial.

About IGALMI® (dexmedetomidine) sublingual film

INDICATION

IGALMI® (dexmedetomidine) sublingual film is a prescription medicine, administered under the supervision of a health care provider, that is placed under the tongue or behind the lower lip and is used for the acute treatment of agitation associated with schizophrenia and bipolar disorder I or II in adults. The safety and effectiveness of IGALMI has not been studied beyond 24 hours from the first dose. It is not known if IGALMI is safe and effective in children.

IMPORTANT SAFETY INFORMATION

IGALMI can cause serious side effects, including:

- **Decreased blood pressure, low blood pressure upon standing, and slower than normal heart rate, which may be more likely in patients with low blood volume, diabetes, chronic high blood pressure, and older patients.** IGALMI is taken under the supervision of a healthcare provider who will monitor vital signs (like blood pressure and heart rate) and alertness after IGALMI is administered to help prevent falling or fainting. Patients should be adequately hydrated and sit or lie down after taking IGALMI and instructed to tell their healthcare provider if they feel dizzy, lightheaded, or faint.
- **Heart rhythm changes (QT interval prolongation).** IGALMI should not be given to patients with an abnormal heart rhythm, a history of an irregular heartbeat, slow heart rate, low potassium, low magnesium, or taking other drugs that could affect heart rhythm. Taking IGALMI with a history of abnormal heart rhythm can increase the risk of torsades de pointes and sudden death. Patients should be instructed to tell their healthcare provider immediately if they feel faint or have heart palpitations.
- **Sleepiness/drowsiness.** Patients should not perform activities requiring mental alertness, such as driving or operating hazardous machinery, for at least 8 hours after taking IGALMI.
- **Withdrawal reactions, tolerance, and decreased response/efficacy.** IGALMI was not studied for longer than 24 hours after the first dose. Physical dependence, withdrawal symptoms (e.g., nausea, vomiting, agitation), and decreased response to IGALMI may occur if IGALMI is used longer than 24 hours.

The most common side effects of IGALMI in clinical studies were sleepiness or drowsiness, a prickling or tingling sensation or numbness of the mouth, dizziness, dry mouth, low blood pressure, and low blood pressure upon standing.

These are not all the possible side effects of IGALMI. Patients should speak with their healthcare provider for medical advice about side effects.

Patients should tell their healthcare provider about their medical history, including if they suffer from any known heart problems, low potassium, low magnesium, low blood pressure, low heart rate, diabetes, high blood pressure, history of fainting, or liver impairment. They should also tell their healthcare provider if they are pregnant or breastfeeding or take any medicines, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Patients should especially tell their healthcare provider if they take any drugs that lower blood pressure, change heart rate, or take anesthetics, sedatives, hypnotics, and opioids.

Everyone is encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088. You can also contact BioXcel Therapeutics, Inc. at 1-833-201-1088 or medinfo@bioexceltherapeutics.com.

Please see full prescribing information at Igalmi.com.

About BioXcel Therapeutics, Inc.

BioXcel Therapeutics, Inc. (Nasdaq: BTAI) is a biopharmaceutical company utilizing artificial intelligence to develop transformative medicines in neuroscience. Its wholly owned subsidiary, OnkosXcel Therapeutics, is focused on the development of medicines in immuno-oncology. The Company's drug re-innovation approach leverages existing approved drugs and/or clinically validated product candidates together with big data and proprietary machine learning algorithms to identify new therapeutic indications. For more information, please visit bioxcetherapeutics.com.

Forward-Looking Statements

This press release includes "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. We intend such forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act of 1933, as amended and Section 21E of the Securities Exchange Act of 1934, as amended. All statements contained in this press release other than statements of historical fact should be considered forward-looking statements, including, without limitation, statements related to: the Company's planned advancement of its TRANQUILITY and SERENITY trials and the trial designs thereof; potential market opportunity for BXCL501; release of topline data from the ongoing SERENITY trial; the submission of an sNDA to the FDA; the supply of IGALMI through existing distribution channels; the potential for the results from the Company's completed, ongoing and proposed clinical trials to support regulatory approvals for its product candidates. When used herein, words including "anticipate," "believe," "can," "continue," "could," "designed," "estimate," "expect," "forecast," "goal," "intend," "may," "might," "plan," "possible," "potential," "predict," "project," "should," "target," "will," "would" and similar expressions are intended to identify forward-looking statements, though not all forward-looking statements use these words or expressions. In addition, any statements or information that refer to expectations, beliefs, plans, projections, objectives, performance or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking. All forward-looking statements are based upon the Company's current expectations and various assumptions. The Company believes there is a reasonable basis for its expectations and beliefs, but they are inherently uncertain. The Company may not realize its expectations, and its beliefs may not prove correct. Actual results could differ materially from those described or implied by such forward-looking statements as a result of various important factors, including, without limitation: its limited operating history; its incurrence of significant losses; its need for substantial additional funding and ability to raise capital when needed; the impact of the reprioritization; its significant indebtedness, ability to comply with covenant obligations and potential payment obligations related to such indebtedness and other contractual obligations; the Company has identified conditions and events that raise substantial doubt about its ability to continue as a going concern; its limited experience in drug discovery and drug development; risks related to the TRANQUILITY program; its dependence on the success and commercialization of IGALMI[®], BXCL501, BXCL502, BXCL701 and BXCL702 and other product candidates; the number of episodes of agitation and the size of the Company's total addressable market may be overestimated, and approval that the Company may obtain may be based on a narrower definition of the patient population; its lack of experience in marketing and selling drug products; the risk that IGALMI or the Company's product candidates may not be accepted by physicians or the medical community in general; the Company still faces extensive and ongoing regulatory requirements and obligations for IGALMI; the failure of preliminary data from its clinical studies to predict final study results; failure of its early clinical studies or preclinical studies to predict future clinical studies; its ability to receive regulatory approval for its product candidates; its ability to enroll patients in its clinical trials; undesirable side effects caused by the Company's product candidates; its novel approach to the discovery and development of product candidates based on EvolverAI; the significant influence of and dependence on BioXcel LLC; its exposure to patent infringement lawsuits; its reliance on third parties; its ability to comply with the extensive regulations applicable to it; impacts from data breaches or cyber-attacks, if any; risks associated with the increased scrutiny relating to environmental, social and governance (ESG) matters; risks associated with federal, state or foreign health care "fraud and abuse" laws; and its ability to commercialize its product candidates, as well as the important factors discussed under the caption "Risk Factors" in its Annual Report on Form 10-K for the fiscal year ended December 31, 2024, as such factors may be updated from time to time in its other filings with the SEC, which are accessible on the SEC's website at www.sec.gov and the Investors section of the Company's website at www.bioxcetherapeutics.com. These and other important factors could cause actual results to differ materially from those indicated by the forward-looking statements made in this press release. Any such forward-looking statements represent management's estimates as of the date of this press release. While the Company may elect to update such forward-looking statements at some point in the future, except as required by law, it disclaims any obligation to do so, even if subsequent events cause our views to change. These forward-looking statements should not be relied upon as representing the Company's views as of any date subsequent to the date of this press release.

Contact Information

Corporate/Investors

Russo Partners

Nic Johnson

nic.johnson@russopartnersllc.com

1.303.482.6405

Media

Russo Partners

David Schull

david.schull@russopartnersllc.com

1.858.717.2310

Source: BioXcel Therapeutics, Inc.

IGALMI[®] is a registered trademark of BioXcel Therapeutics, Inc.

BioXcel Therapeutics, Inc.

Statements of Operations

(Unaudited, in thousands, except per share amounts)

	Three months ended June 30,		Six months ended June 30,	
	2025	2024	2025	2024
Revenues				
Product revenues	\$ 120	\$ 1,104	\$ 288	\$ 1,686
Operating expenses				
Cost of goods sold	107	62	121	141
Research and development	10,256	8,032	14,810	19,433
Selling, general and administrative	5,609	9,450	11,308	22,715
Restructuring costs	-	856	-	856
Total operating expenses	15,972	18,400	26,239	43,145
Loss from operations	(15,852)	(17,296)	(25,951)	(41,459)
Other (income) expense				
Interest expense, net	4,222	3,700	8,215	7,307
Interest income	(230)	(671)	(509)	(1,618)
Other (income) expense, net	(657)	(12,026)	(7,216)	(12,058)
Net loss and comprehensive loss	\$ (19,187)	\$ (8,299)	\$ (26,441)	\$ (35,090)
Net loss per share - basic and diluted				
Net loss per share - basic and diluted	\$ (2.45)	\$ (3.30)	\$ (4.17)	\$ (15.78)
Weighted average shares outstanding - basic and diluted	7,843	2,516	6,347	2,223

Condensed Balance Sheets

(Unaudited, in thousands)

	June 30,	December 31,
	2025	2024
Cash and cash equivalents and restricted cash	\$ 18,575	\$ 29,854
Total assets	\$ 25,789	\$ 38,338
Total liabilities	\$ 133,456	\$ 131,439
Total stockholders' equity (deficit)	\$ (107,667)	\$ (93,101)