# **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): February 19, 2025

# SONNET BIOTHERAPEUTICS HOLDINGS, INC.

(Exact name of registrant as specified in its charter)

Delaware	001-35570	20-2932652	
(State or other jurisdiction	(Commission	(IRS Employer	
of incorporation)	File Number)	Identification No.)	
100 Overlook Center, Suite 102 Princeton, New Jersey		08540	
(Address of principal executive offices)		(Zip Code)	
Registrant's telephone number, including area code: (609) 375-2227			
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, \$0.0001 Par Value	SONN	The Nasdaq Capital Market LLC

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  $\Box$ 

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 February 19, 2025, Sonnet BioTherapeutics Holdings, Inc. (the "Company") issued a press release announcing that its proprietary Antibody Drug Conjugate ("ADC") platform is available for drug discovery partnerships with potential for producing multiple pipeline drug candidates.

The information in this Current Report on Form 8-K under Item 7.01, including the information contained in Exhibit 99.1, is being furnished to the Securities and Exchange Commission (the "SEC"), and shall not be deemed to be "filed" for the 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, and shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended (the "Securities Act"), or the Exchange Act, except as shall be expressly set forth by a specific reference in such filing.

#### Item 8.01. Other Events.

On February 19, 2025, the Company, a clinical-stage company developing targeted immunotherapeutic drugs announced its plans to advance the development of its proprietary ADC platform which was designed to circumvent many of the technical challenges associated with ADCs. The Company also announced that its proprietary ADC platform is available for drug discovery partnerships with the potential for producing multiple pipeline drug candidates. Building on proven targeting of the F<sub>H</sub>AB domain, the Company's ADC platform offers flexible payload capacity and controllable drug-antibody ratios ("DAR"). An epidermal growth factor receptor 2 (HER2) ADC construct designated -SON-5010 showed similar activities as compared with Kadcyla® and also trastuzumab-MMAE, in a preclinical study. The Company's ADC platform offers the potential for novel ADCs with homogeneous structural integrity, tumor targeting domain, interchangeability of toxin payloads and flexible conjugation site usage.

The initial proof-of-concept (POC) construct was designated as SON-5010, which is produced through a two-step process whereby the targeting scaffold and payload domains are either expressed and purified from mammalian cells or chemically synthesized, respectively, and then joined to create the final ADC conjugate using a chemical linkage process. The SON-5010 ADC construct comprises an anti-HER2-FHAB-anti-HER2 targeting scaffold linked to a docking peptide that with three equally spaced lysine residues serving as conjugation sites for monomethyl auristatin E (MMAE), a synthetic antineoplastic agent that disrupts the microtubule network and suppresses cell proliferation and mitosis, including G2/M arrest. This initial SON-5010 ADC was used in a head-to-head comparison with an approved product, Kadcyla®, which has a very similar anti-HER2 targeting domain and linker chemistry but is conjugated with a different toxin payload known as mertansine (DM1) and a trastuzumab-MMAE complex, consisting of a humanized anti-HER2 receptor monoclonal antibody with the same linker chemistry and 3x MMAE DAR payload as SON-5010.

## Forward-Looking Statements

This Current Report on Form 8-K, including Exhibit 99.1 furnished herewith, contains certain forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act and Private Securities Litigation Reform Act, as amended, including those relating to the Company's product development, the outcome of the Company's clinical trials, the Company's cash runway, clinical and regulatory timelines, market opportunity, competitive position, possible or assumed future results of operations, business strategies, potential growth opportunities and other statements that are predictive in nature. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which we operate and management's current beliefs and assumptions.

These statements may be identified by the use of forward-looking expressions, including, but not limited to, "expect," "anticipate," "intend," "plan," "believe," "estimate," "potential," "predict," "project," "should," "would" and similar expressions and the negatives of those terms. These statements relate to future events or the Company's financial performance and involve known and unknown risks, uncertainties, and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors include those set forth in the Company's filings with the SEC. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this Current Report. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise.

## Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Exhibit
99.1	Press Release, dated February 19, 2025
104	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.

# SONNET BIOTHERAPEUTICS HOLDINGS, INC.

Date: February 19, 2025

By: /s/ Pankaj Mohan, Ph.D.

Name: Pankaj Mohan, Ph.D.

Title: Chief Executive Officer



### Sonnet BioTherapeutics Announces That Its Proprietary Antibody Drug Conjugate (ADC) Platform is Available for Drug Discovery Partnerships with Potential for Producing Multiple Pipeline Drug Candidates

Building on proven targeting of the F<sub>H</sub>AB domain, Sonnet's ADC platform offers flexible payload capacity and controllable drug-antibody ratios (DAR)

An epidermal growth factor receptor 2 (HER2) ADC construct designated – SON-5010 showed similar activities as compared with Kadcyla<sup>®</sup> and also trastuzumab-MMAE, in a preclinical study

Company's ADC Platform offers the potential for novel ADCs with homogeneous structural integrity, tumor targeting domain, interchangeability of toxin payloads and flexible conjugation site usage

Management releases "What This Means" segment discussing its ADC platform; Access here

**PRINCETON, NJ** / ACCESSWIRE / February 19, 2025 / Sonnet BioTherapeutics Holdings, Inc. (the "Company" or "Sonnet") (NASDAQ: SONN), a clinical-stage company developing targeted immunotherapeutic drugs, today announced its plans to advance the development of its proprietary Antibody Drug Conjugate (ADC) platform which was designed to circumvent many of the technical challenges associated with ADCs. Additionally, the Company announced the release of a Virtual Investor "What This Means" segment to discuss plans for its ADC platform, which is now available here.

"In order to increase our value proposition to cancer patients, in addition to our existing  $F_{H}AB$  platform we have developed a bolt-on ADC platform that takes advantage of our  $F_{H}AB$  targeting domain and flexible docking peptides, which offer controllable DAR capacity," commented Pankaj Mohan, Ph.D., Founder and Chief Executive Officer of Sonnet. "Further, we believe our ADC platform is differentiated from other ADCs by stable structural integrity, extended conjugation site flexibility, potential for enhanced tumor penetration and retention with the  $F_{H}AB$  domain, and potential to select and conjugate one of several possible payloads having different mechanisms of action (MOA) for killing cancer cells. With a plug-and-play ADC platform, we could generate a number of ADC candidates, and thus, we are seeking value-driven discovery partnerships."

The initial proof-of-concept (POC) construct was designated as SON-5010, which is produced through a two-step process whereby the targeting scaffold and payload domains are either expressed and purified from mammalian cells or chemically synthesized, respectively, and then joined to create the final ADC conjugate using a chemical linkage process. The SON-5010 ADC construct is comprised of an anti-HER2-F<sub>H</sub>AB-anti-HER2 targeting scaffold linked to a docking peptide that has 3 equally spaced lysine residues which serve as conjugation sites for monomethyl auristatin E (MMAE), a synthetic antineoplastic agent that disrupts the microtubule network and suppresses cell proliferation and mitosis, including G2/M arrest. This initial SON-5010 ADC was used in a head-to-head comparison with an approved product, Kadcyla<sup>®</sup>, which has a very similar anti-HER2 targeting domain and linker chemistry but is conjugated with a different toxin payload known as mertansine (DM1) and a trastuzumab-MMAE complex, consisting of a humanized anti-HER2 receptor monoclonal antibody with the same linker chemistry and 3x MMAE DAR payload as SON-5010.

John Cini, Ph.D., Co-Founder and Chief Scientific Officer commented, "Sonnet is excited about the early POC data shown by this novel plug-and-play, non-IgG ADC format that incorporates Sonnet's albumin binding scFv into the targeting scaffold. The binding of albumin in this particular ADC format provides the differentiated potential for accumulation of the  $F_HAB$ -ADC complex into the tumor. The SON-5010 ADC was produced with the same linker chemistry and MMAEx3 as in trastuzumab (Herceptiff) and

has shown *in vitro* human serum stability at  $37^{\circ}$ C and similar cellular cytotoxicity results. In a direct *in vivo* comparison with Kadcyla and Herceptin<sup>®</sup> at 10mg/kg in the BT-474 HER2+ carcinoma breast tumor mouse model, SON-5010 demonstrated similar tumor reduction activity and no detectable toxicity. The potential diverse application of Sonnet's ADC platform could be applied with a wide variety of linkers and toxins, resulting in complete controllable DAR. Further, Sonnet's ADC platform has the ability to show bispecific or tri-specific tumor targeting capability when associated with the F<sub>H</sub>AB scFv, which could potentially improve its ADC clinical efficiency."

Dr. Stephen McAndrew, Ph.D., Chief Business Officer commented, "We believe this ADC platform differentiates itself by offering the potential for flexibility around multiple targeting scaffolds, controllable DARs and choice of payload. We plan to continue global prosecution of our intellectual property around this ADC platform while we seek discovery partnership opportunities aimed at developing proprietary ADC drug candidates."

#### About Sonnet BioTherapeutics Holdings, Inc.

Sonnet is an oncology-focused biotechnology company with a proprietary platform for developing targeted biologic drugs with single or bifunctional action. Known as  $F_HAB$  (Fully Human Albumin-Binding), the technology utilizes a fully human single chain antibody fragment (scFv) that binds to and "hitch-hikes" on human serum albumin (HSA) for transport to target tissues. Sonnet's  $F_HAB$  was designed to specifically target tumor and lymphatic tissue, with an improved therapeutic window for optimizing the safety and efficacy of immune modulating biologic drugs.  $F_HAB$  platform is the foundation of a modular, plug-and-play construct for potentiating a range of large molecule therapeutic classes, including cytokines, peptides, antibodies, and vaccines.

Sonnet's lead program, SON-1010, or IL-12- $F_HAB$ , is in development for the treatment of advanced solid tumors, certain types of sarcoma, and platinum-resistant ovarian cancer (PROC). SON-1010 is being evaluated in an ongoing Phase 1/2a study through a Master Clinical Trial and Supply Agreement with Roche in combination with atezolizumab (Tecentriq<sup>®</sup>) for the treatment of PROC. The Company is also evaluating its second product candidate, SON-1210, an IL12- $F_HAB$ -IL15 for solid tumors, in collaboration with the Innovative Immuno-Oncology Consortium (IIOC), and plans to commence an investigator-initiated and funded Phase 1/2a study for the treatment of locally-advanced or metastatic pancreatic ductal adenocarcinoma (PDAC).

The Company's SON-080 program is a low dose of rhIL-6 in development for Chemotherapy-Induced Peripheral Neuropathy (CIPN) and Diabetic Peripheral Neuropathy (DPN). SON-080 demonstrated encouraging results in a Phase 1b/2a clinical trial, being well tolerated with no evidence of a pro-inflammatory cytokine response. In October 2024, Sonnet announced a license agreement with Alkem Laboratories, Inc. who will assume responsibility for advancing development of the SON-080 program into a Phase 2 study in DPN in India.

#### **Forward-Looking Statements**

This press release contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section21E of the Securities Exchange Act

of 1934 and Private Securities Litigation Reform Act, as amended, including those relating to, the Company's product development, the Company's cash runway clinical and regulatory timelines, market opportunity, competitive position, possible or assumed future results of operations, business strategies, potential growth opportunities and other statements that are predictive in nature. These forward-looking statements are based on current expectations, estimates, forecasts and projections about the industry and markets in which we operate and management's current beliefs and assumptions.

These statements may be identified by the use of forward-looking expressions, including, but not limited to, "expect," "anticipate," "intend," "plan," "believe," "estimate," "potential, "predict," "project," "should," "would" and similar expressions and the negatives of those terms. These statements relate to future events or our financial performance and involve known and unknown risks, uncertainties, and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors include those set forth in the Company's filings with the Securities and Exchange Commission. Prospective investors are cautioned not to place undue reliance on such forward-looking statements, which speak only as of the date of this press release. The Company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise.

#### **Investor Relations Contact:**

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