

**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 1, 2022**

**GREENLIGHT BIOSCIENCES HOLDINGS, PBC**  
(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction  
of incorporation)

**001-39894**  
(Commission  
File Number)

**85-1914700**  
(IRS Employer  
Identification No.)

**200 Boston Avenue  
Suite 3100  
Medford, MA 02155**  
(Address of principal executive offices, including zip code)

**Registrant's telephone number, including area code: (617) 616-8188**

**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)
- 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<br>Symbol | Name of each exchange<br>on which registered |
|---|-------------------|--|
| <b>Common Stock, par value \$0.0001 per share</b>   | <b>GRNA</b>       | <b>Nasdaq Global Market</b>                  |
| <b>Warrants, each exercisable for one share of<br/>Common Stock for \$11.50 per share</b> | <b>GRNAW</b>      | <b>Nasdaq Global Market</b>                  |

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 7.01. Regulation FD Disclosure.**

On August 1, 2022, GreenLight Biosciences Holdings, PBC (the “**Company**”), issued a press release announcing that the first commercial-scale engineering run for the production of the Company’s mRNA vaccine candidate has been completed through the Company’s relationship with Samsung Biologics Co., Ltd. A copy of the press release is set forth as Exhibit 99.1 and is incorporated by reference herein.

The information contained in this Item 7.01 of this Current Report on Form 8-K (this “**report**”) and Exhibit 99.1 attached hereto 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 in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as expressly set forth by specific reference in such a filing.

*Cautionary Note Regarding Forward Looking Statements*

The press release attached as Exhibit 99.1 to this report contains, and our officers, directors and employees may make, “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995, with respect to the future operations, scientific developments or financial results of the Company, the Company’s relationship with Samsung Biologics and the manufacturing and scale-up of its product candidates. These forward-looking statements generally are identified by the words “aim to”, “believe,” “project,” “target”, “potential”, “expect,” “anticipate,” “estimate,” “intend,” “strategy,” “future,” “opportunity,” “plan,” “may,” “should,” “will,” “would,” “will be,” “will continue,” “will likely result” and similar expressions. Many factors could cause actual future events to differ materially from the forward-looking statements in the press release, including the evolution of the COVID-19 pandemic, the ability to develop COVID-19 vaccines that are more broadly protective against new variants and with longer-lasting effects, the ability to begin clinical trials for the Company’s COVID-19 booster vaccine candidate in 2022, the ability to rapidly develop and deploy vaccines on a commercial scale or at all, unanticipated challenges in advancing large-scale commercial production, the ability to scale up and the compatibility of the Company’s process to Samsung Biologics’ Songdo facility, the ability to replicate the production scale in future engineering runs, the acceptance of RNA-based technologies by regulators and the public, our ability to raise and productively deploy capital and the rate at which we can successfully bring products to market. Readers are cautioned not to put undue reliance on forward-looking statements and are encouraged to read the additional risks and uncertainties discussed in our periodic filings with the Securities and Exchange Commission under the heading “Risk Factors.” The Company assumes no obligation to update or revise these forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law. For additional information on the Company’s and potential risks associated with investing in the Company’s securities, please see our public filings at <https://www.sec.gov/edgar/browse/?CIK=1822691&owner=exclude>.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

| <u>Exhibit Number</u> | <u>Description</u>  |
|-----------------------|---|
| 99.1                  | <a href="#">Press release, dated August 1, 2022, titled “GreenLight Biosciences and Samsung Biologics complete first commercial-scale engineering run for mRNA Covid-19 vaccine.”</a> |
| 104                   | Cover Page Interactive Data File (embedded within the Inline XBRL document).  |

**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.

GREENLIGHT BIOSCIENCES HOLDINGS, PBC

By: /s/ David Kennedy

Name: David Kennedy

Title: General Counsel

Date: August 1, 2022

## **GreenLight Biosciences and Samsung Biologics complete first commercial-scale engineering run for mRNA Covid-19 vaccine**

- **GreenLight’s messenger RNA production process is transferable to large-scale equipment and CMO facilities**
- **Technology transfer and scale-up from lab bench to Samsung’s commercial facility was completed in seven months**
- **GreenLight’s mRNA synthesis reaction had a titer of 12g/L at a commercial scale and produced 650g of mRNA**
- **The mRNA synthesis reaction was achieved without the need for customization, using standard equipment for Contract Development and Manufacturing Companies (CDMO)**
- **Commercial-scale run has demonstrated production—in a single facility—of both Drug Substance and LNP formulation, allowing the production of bulk Drug Product**

Boston and Incheon, S. Korea, August 1, 2022—(GLOBE NEWSWIRE)—GreenLight Biosciences (Nasdaq: GRNA), a biotechnology company dedicated to making ribonucleic acid (RNA) products affordable and accessible for human health and agriculture, and Samsung Biologics (KRX: 207940.KS), a leading global CDMO providing fully integrated end-to-end contract development and manufacturing services, announced the successful completion of the first commercial-scale engineering run for the companies’ mRNA production partnership.

Since the announcement of the strategic partnership between GreenLight Biosciences and Samsung Biologics in late 2021, technology transfer and scale-up from the lab bench to Samsung’s commercial facility was completed in seven months, demonstrating platform adaptability and scalability.

GreenLight’s process—from drug substance and lipid nanoparticle formulation to bulk drug product—can be completed in the same facility, an important capability. GreenLight’s mRNA synthesis reaction had a titer of 12g/L at commercial scale and produced 650g of mRNA.

---

The company's RNA platform allowed GreenLight to move from conceptualizing an mRNA vaccine to delivering released clinical trial material in less than two years. With the demonstration at Samsung, and with GreenLight's Covid booster vaccine clinical trial expected to start in 2022, GreenLight would be capable of supplying mRNA vaccine at a commercial scale.

"This demonstrates a major achievement in our continuing goal to offer one-stop end-to-end mRNA production from Drug Substance to Aseptic Fill Finish to commercial release, all from a single site, as we strive across our biomanufacturing network to fight the pandemic," said John Rim, CEO and President at Samsung Biologics.

Earlier this year, Samsung Biologics completed the expansion of its mRNA drug substance manufacturing suite at its Songdo headquarters, where the company is now fully equipped to provide end-to-end mRNA production for clients.

"One of the greatest challenges when producing quality pharmaceuticals is advancing from a small lab to large-scale commercial production," said GreenLight CEO Andrey Zarur. "We are grateful for the help and support of Samsung in demonstrating that our small mRNA process can scale in a linear fashion to the industrial scale that will be needed to help satisfy the vaccine needs of humanity."

To date, all comparability data conforms with expected outcomes, indicating successful scale up and fit of GreenLight's process to Samsung Biologics' Songdo facility. A second engineering run will start in August, to implement improvements indicated by the first run and to demonstrate repeatability at scale.

### **About GreenLight Biosciences**

GreenLight Biosciences aims to address some of the world's biggest problems by delivering on the full potential of RNA for human health and agriculture. Our RNA platform allows us to research, design, and manufacture for human, animal, and plant health. In human health, this includes messenger RNA vaccines and therapeutics. In agriculture, this includes RNA to protect honeybees and a range of crops. The company's platform is protected by numerous patents. GreenLight's human health

product candidates are in the pre-clinical stage, and its product candidates for the agriculture market are in the early stages of development or regulatory review. GreenLight is a public benefit corporation that trades under the ticker GRNA on Nasdaq. For more information, visit <https://www.greenlightbiosciences.com/>

**GreenLight Biosciences contact:**

David Pesci  
Head of Media Relations  
[dpesci@greenlightbio.com](mailto:dpesci@greenlightbio.com)  
For press, email: [press@greenlightbio.com](mailto:press@greenlightbio.com)  
For investors, email: [investors@greenlightbio.com](mailto:investors@greenlightbio.com)

**About Samsung Biologics Co., Ltd.**

Samsung Biologics (KRX: 207940.KS) is a fully integrated CDMO offering state-of-the-art contract development and manufacturing services. With proven regulatory approvals, the largest capacity, and the fastest throughput, Samsung Biologics is an award-winning partner of choice and is uniquely able to support the development and manufacturing of biologics products at every stage of the process while meeting the evolving needs of biopharmaceutical companies worldwide. For more information, visit [samsungbiologics.com](https://www.samsungbiologics.com).

**Samsung Biologics contact:**

Claire Kim  
Senior Director of Global Marketing Communications  
[cair.kim@samsung.com](mailto:cair.kim@samsung.com)

Notes to editors

1. GreenLight and Samsung Biologics announced their partnership in December 2021:  
<https://greenlightbiosciences.com/greenlight-biosciences-and-samsung-biologics-announce-collaboration/>
2. A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/5f22986d-9b95-4bf5-9d6f-334ea48f22ba>