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): September 1, 2020

B. RILEY PRINCIPAL MERGER CORP. II

(Exact name of registrant as specified in its charter)

001-39291

Delaware (State or other jurisdiction of incorporation)

(Commission File Number)

84-4290188

(IRS Employer Identification No.)

299 Park Avenue, 21st Floor

New York, NY 10171

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code: (212) 457-3300

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 Symbol(s) | Name of each exchange on which registered |
|--|-------------------|---|
| Units, each consisting of one share of Class A common | BMRG.U | The New York Stock Exchange |
| stock and one-half of one redeemable warrant | | |
| Class A common stock, par value \$0.0001 per share | BMRG | The New York Stock Exchange |
| Warrants, each whole warrant exercisable to purchase | BMRG WS | The New York Stock Exchange |
| one share of Class A common stock, each at an exercise | | |
| price of \$11.50 per share | | |

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.

Item 7.01. Regulation FD Disclosure.

In connection with the previously announced potential business combination (the "business combination") between B. Riley Principal Merger Corp. II (the "Company") and Eos Energy Storage LLC ("Eos"), on September 1, 2020, Eos issued a press release announcing certain business-related updates, a copy of which is attached as Exhibit 99.1 to this Current Report on Form 8-K. There can be no assurance that a definitive agreement will be entered into or that the business combination will be consummated.

The information in this Item 7.01, including Exhibit 99.1, is furnished and 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 liabilities under that section, and shall not be deemed to be incorporated by reference into the filings of the Company under the Securities Act of 1933, as amended (the "Securities Act"), or the Exchange Act, regardless of any general incorporation language in such filings. This Current Report on Form 8-K will not be deemed an admission as to the materiality of any information of the information in this Item 7.01.

Additional Information and Where to Find It

If a legally binding definitive agreement is entered into, a full description of the terms of the business combination will be provided in a proxy statement for the stockholders of the Company (the "Business Combination Proxy Statement"), to be filed with the U.S. Securities and Exchange Commission (the "SEC").

Investors and security holders of the Company are advised to read, when available, the preliminary Business Combination Proxy Statement and definitive Business Combination Proxy Statement, and any amendments thereto, because these documents will contain important information about the business combination. The definitive Business Combination Proxy Statement will be mailed to the Company's stockholders of record as of a record date to be established for the special meeting of stockholders relating to the business combination. Stockholders will also be able to obtain copies of the Business Combination Proxy Statement, without charge, once available, at the SEC's website at www.sec.gov or by directing a request to: B. Riley Principal Merger Corp. II, 299 Park Avenue, 21st Floor, New York, NY 10171.

Forward Looking Statements

Certain statements made in this Current Report on Form 8-K are "forward looking statements" within the meaning of the "safe harbor" provisions of the United States Private Securities Litigation Reform Act of 1995. When used in this Current Report on Form 8-K, the words "estimates," "projected," "expects," "anticipates," "forecasts," "plans," "intends," "believes," "seeks," "may," "will," "should," "future," "propose" and variations of these words or similar expressions (or the negative versions of such words or expressions) are intended to identify forward-looking statements. These forward-looking statements are not guarantees of future performance, conditions or results, and involve a number of known and unknown risks, uncertainties, assumptions and other important factors, many of which are outside the Company's control, that could cause actual results or outcomes to differ materially from those discussed in the forward-looking statements. Important factors, among others, that may affect actual results or outcomes include: the inability of the Company to enter into a definitive agreement with respect to the potential business combination or to complete the contemplated transactions with Eos; matters discovered by Eos or the Company as they complete their respective due diligence investigation of the other; the risk that the approval of the stockholders of the Company for the business combination is not obtained; the inability to recognize the anticipated benefits of the potential business combination, which may be affected by, among other things, the amount of funds available in the Company's trust account following any redemptions by the Company stockholders; the ability to meet the NYSE's listing standards following the consummation of the transactions contemplated by the potential business combination; costs related to the potential business combination; and those factors discussed in the prospectus, dated May 19, 2020, filed in connection with the Company's initial public offering, under the heading "Risk Factors," and other documents of the Company filed, or to be filed, with the SEC. The Company does not undertake any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

Participants in the Solicitation

The Company and its directors and executive officers may be considered participants in the solicitation of proxies with respect to the business combination described herein under the rules of the SEC. Information about the directors and executive officers of the Company and a description of their interests in the Company will be set forth in the Business Combination Proxy Statement when it is filed with the SEC. These documents can be obtained free of charge from the sources indicated above.

Non-Solicitation

The disclosure herein is not a proxy statement or solicitation of a proxy, consent or authorization with respect to any securities or in respect of the potential business combination and shall not constitute an offer to sell or a solicitation of an offer to buy the securities of the Company, nor shall there be any sale of any such securities in any state or jurisdiction in which such offer, solicitation, or sale would be unlawful prior to registration or qualification under the securities laws of such state or jurisdiction. No offer of securities shall be made except by means of a definitive document.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

EXHIBIT INDEX

| Exhibit No. | Description |
|-------------|---|
| 99.1 | Press Release, dated September 1, 2020. |
| | |

2

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.

B. RILEY PRINCIPAL MERGER CORP. II

Dated: September 2, 2020

By: /s/ Daniel Shribman

Name: Daniel Shribman Title: Chief Executive Officer and Chief Financial Officer

3



Eos Energy Storage Announces Agreement for 500 MWh Project with Carson Hybrid Energy Storage

EDISON, N.J. SEPTEMBER 1, 2020 -- Eos Energy Storage ("Eos"), a leading manufacturer of safe, low-cost, and long-duration zinc hybrid cathode ($Znyth^{TM}$) battery energy storage systems, today announced that it has entered into an agreement to supply Carson Hybrid Energy Storage, LLC ("CHES") with 500 MWh of integrated AC battery energy storage systems ("BESS"). Eos will manufacture, design and deliver its zinc-based battery solutions to CHES starting in the first quarter of 2023. These safe, sustainable, long duration battery solutions will be used in parallel with existing power generation and substation architecture to store renewable energy generated capacity, and to provide power quality and better resilience to the California Power Grid.

"The recent rolling blackouts in California call for another transformation in energy, this time related to supply. We believe long duration energy storage is going to play a pivotal role in this transformation over the next three to five years," commented Dr. Balki G. Iyer, Chief Commercial Officer of Eos. "Eos is delighted to be partnering with an innovator such as CHES, which is seeking to build this project to provide solutions around a premium zone in Los Angeles. Eos's zinc batteries are non-flammable, built with environmentally friendly materials, and are manufactured right here in the USA. They are a perfect fit for addressing the need which we have seen from some of our recent projects in California on a smaller scale."

Peter Reardon, President of CHES, commented, "California needs fire safe, large scale energy storage located in our cities and towns to provide grid reliability as we move towards our zero carbon future. The recent blackouts showed that California cannot rely on out of state imports during climate induced heat waves affecting regions and not individual states. CHES is committed to developing safe energy storage solutions located in the Los Angeles basin. We seek to partner on this project and a second project with LA's Load Serving Entities (LSE) that value our safe, city based product. With support from Southern California Edison, we are going to maximize the benefit of an existing interconnect to allow for this important energy storage resource to be located in the Los Angeles basin. Choosing Eos was easy, as their zinc aqueous technology is safe from fire, made in the USA, and provides green jobs. We will implement a pilot 1 MW behind the meter project in the Los Angeles basin in 2021 and then scale rapidly."

About Carson Energy Storage, LLC

Headquartered in California, CHES operates under the California Independent System Operator Corporation ("CAISO") tariff as a grid connected generator.

About Eos Energy Storage

At Eos, we are on a mission to accelerate clean energy by deploying stationary storage solutions that can help deliver the reliable and cost-competitive power that the market expects in a safe and environmentally sustainable way. Armed with a patent for a membrane-free zinc battery technology, Eos has been pursuing this opportunity since 2008 when it was founded. Eos Energy Storage has 10+ years of experience in battery storage testing, development, deployment, and operation. The Eos Aurora® system integrates the Company's aqueous, zinc battery technology (Znyth®) to provide a safe, scalable, and sustainable alternative to Lithium Ion.

To learn more about Eos, please visit: https://eosenergystorage.com.

Contact

For Investor Relations, please contact ir@eosenergystorage.com. For Media Relations, please contact media@eosenergystorage.com.