UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16
OF THE SECURITIES EXCHANGE ACT OF 1934

For the month of February 2021

Commission File Number 001-39446

CureVac N.V.

Friedrich-Miescher-Strasse 15, 72076
Tübingen, Germany
+49 7071 9883 0
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F:

FORM 20-F ☒ FORM 40-F ☐

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1): ☐

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7): ☐

Indicate by check mark whether the registrant by furnishing the information contained in this form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934:

YES ☐ NO ☒

If “Yes” is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- _____

On February 4, 2021, CureVac N.V. (the “Company”) issued a press release announcing that the Company started an expansion of the ongoing Phase 1 study with its lead RNA-based cancer drug candidate, CV8102.

The information in this Form 6-K (including Exhibit 99.1) shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934 (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 or the Exchange Act.

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, thereunto duly authorized.

CUREVAC N.V.

By: /s/ Franz-Werner Haas, LLD, LLM
Chief Executive Officer

Date: February 4, 2021

EXHIBIT INDEX

EXHIBIT NO.	DESCRIPTION
99.1	CureVac N.V. Press Release dated February 4, 2021.

Exhibit 99.1

CureVac Expands Lead RNA Cancer Program Phase 1 Trial in Advanced Melanoma

- *CV8102 recommended dose identified; expansion trial to confirm safety, tolerability, and efficacy*
- *Trial expansion focuses on advanced melanoma, an indication of high medical need*

TÜBINGEN, Germany / BOSTON, USA – February 4, 2021 – CureVac N.V. (Nasdaq: CVAC), a global biopharmaceutical company developing a new class of transformative medicines based on messenger ribonucleic acid (mRNA), today announced the start of an expansion of the ongoing Phase 1 study with its lead RNA-based cancer drug candidate, CV8102. Initial results from the dose-escalation part in four solid cancer types were presented at the SITC conference in 2020. CV8102 had shown promising evidence of efficacy after intratumoral application as a single agent, and in combination with systemic anti-PD-1 antibody treatment. Translation of a locally induced immune response into a systemic immune response was observed in several patients, showing the ability of CV8102 to impact injected as well as distant lesions. The objective of the expansion is to confirm safety, tolerability, and efficacy of CV8102 in patients with advanced melanoma at 600µg, the selected dose to be advanced in a Phase 2 clinical trial. Furthermore, the trial expansion will evaluate the effects of CV8102 on systemic and intratumoral immune markers, which will provide additional clinical insights on CV8102's mode of action.

"Initial clinical data in cancer has demonstrated the ability of our RNA immunomodulator to trigger a systemic immune response attacking cancer not only at the site of injection but also in other areas of the body," said Ulrike Gnad-Vogt, Senior Vice President Area Head Oncology at CureVac. "The CV8102 trial expansion is expected to provide further insights into clinical efficacy and mechanism of action in patients with advanced PD-1 refractory melanoma, an indication with a high unmet medical need. We are very pleased to see CV8102 progress to the next stage, an important step to further leverage the potential of immunostimulating RNA therapeutics in oncology."

The expansion part of the trial will enrol 30 patients with PD-1 refractory melanoma, who will receive intratumoral injections of CV8102 in combination with PD-1 antibodies, as well as 10 patients who will be treated with CV8102 only. Initially, CV8102, with or without co-administration of anti-PD-1 treatment, will be injected weekly for five weeks, followed by three injections at two- or three-week intervals depending on the anti-PD-1 antibody schedule. Patients showing evidence of clinical benefit are eligible for further injections for up to 12 months.

About CV8102

CV8102 is a noncoding single stranded RNA complexed with a cationic peptide and functions as a strong immunomodulator based on TLR (toll-like receptor) 7/8 and RIG-1 (retinoic-acid-inducible protein 1) activation. It is designed to modulate the tumor microenvironment following intratumoral injection and to translate a local immune response towards released tumor antigens into a systemic immune response to control both injected as well as distant lesions. The currently ongoing Phase 1 dose escalation study is assessing tolerability as well as activity of CV8102 in the dose range of 25 to 900 µg. It is administered as both a single agent and in combination with systemic anti-PD-1 antibodies for the intratumoral treatment of four types of solid tumors: cutaneous melanoma, adenoid cystic carcinoma, squamous cell carcinoma of the skin, and squamous cell carcinoma of the head and neck. Initial results from the dose-escalation study presented at the SITC conference in November 2020 showed that the 600µg dose was tolerated without dose limiting toxicities as a single agent and in combination with anti-PD-1 antibodies. Preliminary evidence of efficacy was observed in the single agent and combination group, with several patients showing responses of distant noninjected lesions.

About CureVac

CureVac is a global biopharmaceutical company in the field of messenger RNA (mRNA) technology, with more than 20 years of expertise in developing and optimizing the versatile biological molecule for medical purposes. The principle of CureVac's proprietary technology is the use of non-chemically modified mRNA as a data carrier to instruct the human body to produce its own proteins capable of fighting a broad range of diseases. Based on its proprietary technology, the company has built a deep clinical pipeline across the areas of prophylactic vaccines, cancer therapies, antibody therapies, and the treatment of rare diseases. CureVac had its initial public offering on the New York Nasdaq in August 2020. It is headquartered in Tübingen, Germany, and employs more than 500 people at its sites in Tübingen, Frankfurt, and Boston, USA. Further information can be found at www.curevac.com.

CureVac Media Contact

Thorsten Schüller, Vice President Communications
CureVac, Tübingen, Germany
T: +49 7071 9883-1577
thorsten.schueller@curevac.com

CureVac Investor Relations Contact
Dr. Sarah Fakih, Vice President Investor Relations
CureVac, Tübingen, Germany
T: +49 7071 9883-1298
M: +49 160 90 496949
sarah.fakih@curevac.com

Forward-Looking Statements

This press release contains statements that constitute “forward looking statements” as that term is defined in the United States Private Securities Litigation Reform Act of 1995, including statements that express the opinions, expectations, beliefs, plans, objectives, assumptions or projections of CureVac (the “company”) regarding future events or future results, in contrast with statements that reflect historical facts. Examples include discussion of the potential efficacy of the company’s vaccine and treatment candidates and the company’s strategies, financing plans, growth opportunities and market growth. In some cases, you can identify such forward-looking statements by terminology such as “anticipate,” “intend,” “believe,” “estimate,” “plan,” “seek,” “project,” or “expect,” “may,” “will,” “would,” “could,” “potential,” “intend,” or “should,” the negative of these terms or similar expressions. Forward-looking statements are based on management’s current beliefs and assumptions and on information currently available to the company. However, these forward-looking statements are not a guarantee of the company’s performance, and you should not place undue reliance on such statements. Forward-looking statements are subject to many risks, uncertainties and other variable circumstances, including negative worldwide economic conditions and ongoing instability and volatility in the worldwide financial markets, ability to obtain funding, ability to conduct current and future preclinical studies and clinical trials, the timing, expense and uncertainty of regulatory approval, reliance on third parties and collaboration partners, ability to commercialize products, ability to manufacture any products, possible changes in current and proposed legislation, regulations and governmental policies, pressures from increasing competition and consolidation in the company’s industry, the effects of the COVID-19 pandemic on the company’s business and results of operations, ability to manage growth, reliance on key personnel, reliance on intellectual property protection, ability to provide for patient safety, and fluctuations of operating results due to the effect of exchange rates or other factors. Such risks and uncertainties may cause the statements to be inaccurate and readers are cautioned not to place undue reliance on such statements. Many of these risks are outside of the company’s control and could cause its actual results to differ materially from those it thought would occur. The forward-looking statements included in this press release are made only as of the date hereof. The company does not undertake, and specifically declines, any obligation to update any such statements or to publicly announce the results of any revisions to any such statements to reflect future events or developments, except as required by law.

For further information, please reference the company’s reports and documents filed with the U.S. Securities and Exchange Commission (SEC). You may get these documents by visiting EDGAR on the SEC website at www.sec.gov.