

**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): November 16, 2020**

**MODERNA, INC.**  
(Exact name of registrant as specified in its charter)

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

**001-38753**  
(Commission  
File Number)

**81-3467528**  
(IRS Employer  
Identification No.)

**200 Technology Square**  
**Cambridge, MA**  
(Address of principal executive offices)

**02139**  
(Zip code)

**(Registrant's telephone number, including area code): (617) 714-6500**

**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 \$0.0001 per share	MRNA	The NASDAQ Stock 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 or Rule 12b-2 of the Securities Exchange Act of 1934.

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 November 16, 2020, Moderna, Inc. issued press releases announcing: (i) that it had been informed by the independent Data Safety Monitoring Board that its vaccine candidate against COVID-19, mRNA-1273, has met the statistical criteria for efficacy in the first interim analysis of the Phase 3 study of mRNA-1273; and (ii) developments related to improvements for the shelf life, shipping and storage temperature conditions for mRNA-1273. Copies of these press releases are furnished as Exhibits 99.1 and 99.2 to this Current Report on Form 8-K.

Information in this Item 7.01 to this Current Report on Form 8-K, and in Exhibits 99.1 and 99.2 furnished herewith, shall not be deemed to be “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 such information 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.

**Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits

<b>Exhibit No.</b>	<b>Description</b>
99.1	<a href="#">Press release issued by Moderna, Inc. on November 16, 2020 entitled “Moderna’s COVID-19 Vaccine Candidate Meets its Primary Efficacy Endpoint in the First Interim Analysis of the Phase 3 COVE Study”</a>
99.2	<a href="#">Press release issued by Moderna, Inc. on November 16, 2020 entitled “Moderna Announces Longer Shelf Life for its COVID-19 Vaccine Candidate at Refrigerated Temperatures”</a>
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.

Date: November 16, 2020

**MODERNA, INC.**

By: /s/ Lori Henderson  
Lori Henderson  
General Counsel and Secretary

**Moderna's COVID-19 Vaccine Candidate Meets its Primary Efficacy Endpoint in the First Interim Analysis of the Phase 3 COVE Study**

*First interim analysis included 95 participants with confirmed cases of COVID-19*

*Phase 3 study met statistical criteria with a vaccine efficacy of 94.5% ( $p < 0.0001$ )*

*Moderna intends to submit for an Emergency Use Authorization (EUA) with U.S. FDA in the coming weeks and expects the EUA to be based on the final analysis of 151 cases and a median follow-up of more than 2 months*

CAMBRIDGE, Mass.—November 16, 2020 – Moderna, Inc. (Nasdaq: MRNA), a biotechnology company pioneering messenger RNA (mRNA) therapeutics and vaccines to create a new generation of transformative medicines for patients, today announced that the independent, NIH-appointed Data Safety Monitoring Board (DSMB) for the Phase 3 study of mRNA-1273, its vaccine candidate against COVID-19, has informed Moderna that the trial has met the statistical criteria pre-specified in the study protocol for efficacy, with a vaccine efficacy of 94.5%. This study, known as the COVE study, enrolled more than 30,000 participants in the U.S. and is being conducted in collaboration with the National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health (NIH), and the Biomedical Advanced Research and Development Authority (BARDA), part of the Office of the Assistant Secretary for Preparedness and Response at the U.S. Department of Health and Human Services.

The primary endpoint of the Phase 3 COVE study is based on the analysis of COVID-19 cases confirmed and adjudicated starting two weeks following the second dose of vaccine. This first interim analysis was based on 95 cases, of which 90 cases of COVID-19 were observed in the placebo group versus 5 cases observed in the mRNA-1273 group, resulting in a point estimate of vaccine efficacy of 94.5% ( $p < 0.0001$ ).

A secondary endpoint analyzed severe cases of COVID-19 and included 11 severe cases (as defined in the study protocol) in this first interim analysis. All 11 cases occurred in the placebo group and none in the mRNA-1273 vaccinated group.

The 95 COVID-19 cases included 15 older adults (ages 65+) and 20 participants identifying as being from diverse communities (including 12 Hispanic or LatinX, 4 Black or African Americans, 3 Asian Americans and 1 multiracial).

The interim analysis included a concurrent review of the available Phase 3 COVE study safety data by the DSMB, which did not report any significant safety concerns. A review of solicited adverse events indicated that the vaccine was generally well tolerated. The majority of adverse events were mild or moderate in severity. Grade 3 (severe) events greater than or equal to 2% in frequency after the first dose included injection site pain (2.7%), and after the second dose included fatigue (9.7%), myalgia (8.9%), arthralgia (5.2%), headache (4.5%), pain (4.1%) and erythema/redness at the injection site (2.0%). These solicited adverse events were generally short-lived. These data are subject to change based on ongoing analysis of further Phase 3 COVE study data and final analysis.

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Preliminary analysis suggests a broadly consistent safety and efficacy profile across all evaluated subgroups.

As more cases accrue leading up to the final analysis, the Company expects the point estimate for vaccine efficacy may change. The Company plans to submit data from the full Phase 3 COVE study to a peer-reviewed publication.

“This is a pivotal moment in the development of our COVID-19 vaccine candidate. Since early January, we have chased this virus with the intent to protect as many people around the world as possible. All along, we have known that each day matters. This positive interim analysis from our Phase 3 study has given us the first clinical validation that our vaccine can prevent COVID-19 disease, including severe disease,” said Stéphane Bancel, Chief Executive Officer of Moderna. “This milestone is only possible because of the hard work and sacrifices of so many. I want to thank the thousands of participants in our Phase 1, Phase 2 and Phase 3 studies, and the staff at our clinical trial sites who have been on the front lines of the fight against the virus. They are an inspiration to us all. I want to thank the NIH, particularly NIAID, for their scientific leadership including through years of foundational research on potential pandemic threats at the Vaccine Research Center that led to the discovery of the best way to make Spike protein antigens that are being used in our vaccine and others’. I want to thank our partners at BARDA and Operation Warp Speed who have been instrumental to accelerating our progress to this point. Finally, I want to thank the Moderna team, our suppliers and our partners, for their tireless work across research, development and manufacturing of the vaccine. We look forward to the next milestones of submitting for an EUA in the U.S., and regulatory filings in countries around the world, while we continue to collect data on the safety and efficacy of the vaccine in the COVE study. We remain committed to and focused on doing our part to help end the COVID-19 pandemic.”

Based on these interim safety and efficacy data, Moderna intends to submit for an Emergency Use Authorization (EUA) with the U.S. Food and Drug Administration (FDA) in the coming weeks and anticipates having the EUA informed by the final safety and efficacy data (with a median duration of at least 2 months). Moderna also plans to submit applications for authorizations to global regulatory agencies.

Moderna is working with the U.S. Centers for Disease Control and Prevention (CDC), Operation Warp Speed and McKesson (NYSE: MCK), a COVID-19 vaccine distributor contracted by the U.S. government, as well as global stakeholders to be prepared for distribution of mRNA-1273, in the event that it receives an EUA and similar global authorizations. By the end of 2020, the Company expects to have approximately 20 million doses of mRNA-1273 ready to ship in the U.S. The Company remains on track to manufacture 500 million to 1 billion doses globally in 2021. On November 10, the American Medical Association (AMA) issued a Current Procedural Terminology (CPT) code to report vaccination with mRNA-1273 (code: 91301). Moderna recently announced further progress towards ensuring the distribution, storage and handling of the vaccine can be done using existing infrastructure.

To learn more about Moderna’s work on mRNA-1273, visit [www.modernatx.com/COVID19](http://www.modernatx.com/COVID19).

### **About the Phase 3 COVE Study**

The Phase 3 COVE trial is a randomized, 1:1 placebo-controlled study testing mRNA-1273 at the 100 µg dose level in 30,000 participants in the U.S., ages 18 and older. The primary endpoint is the prevention of symptomatic COVID-19 disease. Key secondary endpoints include prevention of severe COVID-19 disease and prevention of infection by SARS-CoV-2. The trial will continue to accrue additional data relevant to safety and efficacy even after an EUA is submitted. The final estimates of vaccine efficacy for both primary and secondary endpoints will depend on the totality of data that will accumulate to inform the final analysis. Moderna worked closely with BARDA and the NIH, including NIAID's COVID-19 Prevention Network (CoVPN), to conduct the Phase 3 COVE study under Operation Warp Speed. Moderna's partner PPD (Nasdaq: PPD), a leading global contract research organization providing comprehensive, integrated drug development, laboratory and lifecycle management services, has also been essential to the successful execution of the COVE study.

The Phase 3 COVE study was designed in collaboration with the FDA and NIH to evaluate Americans at risk of severe COVID-19 disease and completed enrollment of 30,000 participants ages 18 and older in the U.S. on October 22, including those at high risk of severe complications of COVID-19 disease. The COVE study includes more than 7,000 Americans over the age of 65. It also includes more than 5,000 Americans who are under the age of 65 but have high-risk chronic diseases that put them at increased risk of severe COVID-19, such as diabetes, severe obesity and cardiac disease. These medically high-risk groups represent 42% of the total participants in the Phase 3 COVE study. The study also included communities that have historically been under-represented in clinical research and have been disproportionately impacted by COVID-19. The study includes more than 11,000 participants from communities of color, representing 37% of the study population, which is similar to the diversity of the U.S. at large. This includes more than 6,000 participants who identify as Hispanic or LatinX, and more than 3,000 participants who identify as Black or African American.

### **About mRNA-1273**

mRNA-1273 is an mRNA vaccine against COVID-19 encoding for a prefusion stabilized form of the Spike (S) protein, which was co-developed by Moderna and investigators from NIAID's Vaccine Research Center. The first clinical batch, which was funded by the Coalition for Epidemic Preparedness Innovations, was completed on February 7, 2020 and underwent analytical testing; it was shipped to the NIH on February 24, 42 days from sequence selection. The first participant in the NIAID-led Phase 1 study of mRNA-1273 was dosed on March 16, 63 days from sequence selection to Phase 1 study dosing. On May 12, the FDA granted mRNA-1273 Fast Track designation. On May 29, the first participants in each age cohort: adults ages 18-55 years (n=300) and older adults ages 55 years and above (n=300) were dosed in the Phase 2 study of mRNA-1273. On July 8, the Phase 2 study completed enrollment.

Results from the second interim analysis of the NIH-led Phase 1 study of mRNA-1273 in the 56-70 and 71+ age groups were published on September 29 in *The New England Journal of Medicine*. On July 28, results from a non-human primate preclinical viral challenge study evaluating mRNA-1273 were published in *The New England Journal of Medicine*. On July 14, an interim analysis of the original cohorts in the NIH-led Phase 1 study of mRNA-1273 was published in *The New England Journal of Medicine*. mRNA-1273 currently is not approved for use by any regulatory body.

BARDA is supporting the continued research and development of mRNA-1273 with \$955 million in federal funding under Contract no. 75A50120C00034. BARDA is reimbursing Moderna for 100 percent of the allowable costs incurred by the Company for conducting the program described in the BARDA contract. The U.S. government has agreed to provide up to \$1.525 billion to purchase supply of mRNA-1273 under U.S. Department of Defense Contract No. W911QY-20-C-0100.

## **Forward Looking Statements**

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including regarding the Company's development of a potential vaccine (mRNA-1273) against the novel coronavirus, mRNA-1273's efficacy and its ability to prevent infection or mitigate symptoms of COVID-19, the safety profile for mRNA-1273, further changes to mRNA-1273's efficacy as the study continues, the Company's plans to seek regulatory approval for the use of mRNA-1273 in the U.S. and other jurisdictions, and the Company's anticipated production of mRNA-1273. In some cases, forward-looking statements can be identified by terminology such as "will," "may," "should," "could," "expects," "intends," "plans," "aims," "anticipates," "believes," "estimates," "predicts," "potential," "continue," or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. The forward-looking statements in this press release are neither promises nor guarantees, and you should not place undue reliance on these forward-looking statements because they involve known and unknown risks, uncertainties, and other factors, many of which are beyond Moderna's control and which could cause actual results to differ materially from those expressed or implied by these forward-looking statements. These risks, uncertainties, and other factors include, among others: the fact that there has never been a commercial product utilizing mRNA technology approved for use; the fact that the rapid response technology in use by Moderna is still being developed and implemented; the fact that the safety and efficacy of mRNA-1273 has not yet been established; despite having ongoing interactions with the FDA or other regulatory agencies, the FDA or such other regulatory agencies may not agree with the Company's regulatory approval strategies, components of our filings, such as clinical trial designs, conduct and methodologies, or the sufficiency of data submitted; potential adverse impacts due to the global COVID-19 pandemic such as delays in regulatory review, manufacturing and clinical trials, supply chain interruptions, adverse effects on healthcare systems and disruption of the global economy; and those other risks and uncertainties described under the heading "Risk Factors" in Moderna's most recent Quarterly Report on Form 10-Q filed with the U.S. Securities and Exchange Commission (SEC) and in subsequent filings made by Moderna with the SEC, which are available on the SEC's website at [www.sec.gov](http://www.sec.gov). Except as required by law, Moderna disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this press release in the event of new information, future developments or otherwise. These forward-looking statements are based on Moderna's current expectations and speak only as of the date hereof.

## **Moderna Contacts**

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**Moderna Announces Longer Shelf Life for its COVID-19 Vaccine Candidate at Refrigerated Temperatures**

*Vaccine candidate now expected to remain stable at standard refrigerator temperatures of 2° to 8°C (36° to 46°F) for 30 days, up from previous estimate of 7 days*

*Shipping and long-term storage conditions at standard freezer temperatures of -20°C (-4°F) for 6 months*

*mRNA-1273 to be distributed using widely available vaccine delivery and storage infrastructure*

*No dilution required prior to vaccination*

CAMBRIDGE, Mass.—November 16, 2020 – Moderna, Inc. (Nasdaq: MRNA), a biotechnology company pioneering messenger RNA (mRNA) therapeutics and vaccines to create a new generation of transformative medicines for patients, today announced new data showing that mRNA-1273, its COVID-19 vaccine candidate, remains stable at 2° to 8°C (36° to 46°F), the temperature of a standard home or medical refrigerator, for 30 days. Stability testing supports this extension from an earlier estimate of 7 days. mRNA-1273 remains stable at -20° C (-4°F) for up to six months, at refrigerated conditions for up to 30 days and at room temperature for up to 12 hours.

“We believe that our investments in mRNA delivery technology and manufacturing process development will allow us to store and ship our COVID-19 vaccine candidate at temperatures commonly found in readily available pharmaceutical freezers and refrigerators,” said Juan Andres, Chief Technical Operations and Quality Officer at Moderna. “We are pleased to submit these extended stability conditions for mRNA-1273 to regulators for approval. The ability to store our vaccine for up to 6 months at -20° C including up to 30 days at normal refrigerator conditions after thawing is an important development and would enable simpler distribution and more flexibility to facilitate wider-scale vaccination in the United States and other parts of the world.”

**Shipping & Long-term Storage:** For shipping and longer-term storage, Moderna expects that mRNA-1273 will be maintained at -20° C (-4°F), equal to most home or medical freezer temperatures, for up to 6 months. Using standard freezer temperatures of -20° C (range of -25° to -15° C or -13° to 5° F) is an easier and more established method of distribution and storage than deep freezing and most pharmaceutical distribution companies have the capability to store and ship products at -20° C (-4°F) worldwide.

**Refrigeration Storage:** After thawing, to facilitate storage at points of administration, Moderna expects that mRNA-1273 will remain stable at standard refrigerated conditions of 2° to 8°C (36° to 46°F) for up to 30 days within the 6-month shelf life. The stability at refrigerated conditions allows for storage at most pharmacies, hospitals, or physicians’ offices.

**Room Temperature for Vaccination:** Once the vaccine is removed from the refrigerator for administration, it can be kept at room temperature conditions for up to 12 hours.

**No Dilution Required at Vaccination Site:** The vaccine will not require onsite dilution or special handling, which facilitates vaccination across a range of settings including pharmacies and physicians’ offices.

The Company anticipates that it will continue to gather additional stability information over the coming months to assess whether mRNA-1273 can be shipped and stored under increasingly flexible conditions, which will be described in detail following regulatory approval.

The mRNA-1273 COVID-19 vaccine candidate is Moderna's tenth mRNA vaccine to enter the clinic. With its experience in prophylactic vaccine development and investments in mRNA platform and delivery technology, Moderna has developed enhanced manufacturing processes, resulting in proprietary lipid nanoparticle technology that Moderna believes will enable the vaccine to be stored at standard pharmaceutical distribution temperatures.

Moderna is working with the U.S. Centers for Disease Control and Prevention (CDC), Operation Warp Speed and McKesson (NYSE: MCK), a COVID-19 vaccine distributor contracted by the U.S. government, as well as global stakeholders to be prepared for distribution of mRNA-1273, in the event that it receives an Emergency Use Authorization and/or similar global authorizations. The Company is also working closely with the U.S. Food and Drug Administration (FDA) to submit data from its ongoing stability testing for approval.

### **About mRNA-1273**

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## **Forward Looking Statements**

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