Filed by AstraZeneca PLC This communication is filed pursuant to Rule 425 under the United States Securities Act of 1933 Subject Company: Alexion Pharmaceuticals, Inc. (Commission File No. 000-27756) Date: May 5, 2021

The following is a note from the CFO of AstraZeneca for the employees of AstraZeneca which was posted on its internal social media platform on May 4, 2021:

In case you missed it, Alexion also announced its quarterly results on Friday. It was a strong performance, with first quarter 2021 total revenues of \$1.6 billion, a 13 percent increase compared to the same period in 2020. Always innovating on behalf of patients, Alexion also showed a commitment to reinvesting in R&D.

This strong start to 2021 is no doubt a reflection of the talent, dedication and execution of the Alexion team, who are further advancing a mission of delivering life-changing medicines to patients with rare diseases and devastating conditions. We remain confident that AstraZeneca's own sustained pipeline progress and business performance will be further complemented by the proposed acquisition of Alexion.

[Link: https://ir.alexion.com/news-releases/news-release-details/alexion-reports-first-quarter-2021-results]

Important additional information

In connection with AstraZeneca's proposed acquisition of Alexion (the Acquisition), AstraZeneca filed a registration statement on Form F-4 (the Registration Statement), which has been declared effective by the United States Securities and Exchange Commission, and which includes a document that serves as a prospectus of AstraZeneca and a proxy statement of Alexion (the proxy statement/prospectus). Alexion filed the proxy statement/prospectus as a proxy statement and AstraZeneca filed the proxy statement/prospectus as a prospectus with the SEC on 12 April 2021, and each party will file other documents regarding the Acquisition with the SEC. Investors and security holders of Alexion are urged to carefully read the entire Registration Statement and proxy statement/prospectus and other relevant documents filed with the SEC when they become available, because they will contain important information. Investors and security holders may obtain the Registration Statement and the proxy statement/prospectus free of charge from the SEC's website or from AstraZeneca or Alexion as described in the paragraphs below.

The documents filed by AstraZeneca with the SEC may be obtained free of charge at the SEC's website at www.sec.gov. These documents may also be obtained free of charge on AstraZeneca's website at http://www.astrazeneca.com under the tab "Investors". The documents filed by Alexion with the SEC may be obtained free of charge at the SEC's website at www.sec.gov.

These documents may also be obtained free of charge on Alexion's website at http://www.alexion.com under the tab, "Investors" and under the heading "SEC Filings" or by contacting Alexion's Investor Relations Department at investorrelations@alexion.com.

Participants in the solicitation

AstraZeneca, Alexion and certain of their directors, executive officers and employees may be deemed participants in the solicitation of proxies from Alexion shareholders in connection with the Acquisition. Information regarding the persons who may, under the rules of the SEC, be deemed participants in the solicitation of the shareholders of Alexion in connection with the Acquisition, including a description of their direct or indirect interests, by security holdings or otherwise, is set forth in the proxy statement/prospectus filed with the SEC on 12 April 2021. Information about the directors and executive officers of Alexion and their ownership of Alexion shares is set forth in Alexion's Annual Report on Form 10-K/A, as previously filed with the SEC on 16 February 2021. Free copies of these documents may be obtained as described in the paragraphs above.

Forward-looking statements

This announcement contains certain forward-looking statements with respect to the operations, performance and financial condition of the AstraZeneca Group, including, among other things, statements about expected revenues, margins, earnings per share or other financial or other measures, as well as the ability of the parties to consummate the Acquisition on a timely basis or at all, the ability of the parties to satisfy the conditions precedent to consummation of the Acquisition, including the ability to secure the required regulatory approvals on the terms expected, at all or in a timely manner, the ability of AstraZeneca to successfully integrate Alexion's operations, and the ability of AstraZeneca to implement its plans, forecasts and other expectations with respect to Alexion's business after completion of the Acquisition and realise expected synergies. Although the AstraZeneca Group believes its expectations are based on reasonable assumptions, any forward-looking statements, by their very nature, involve risks and uncertainties and may be influenced by factors that could cause actual outcomes and results to be materially different from those predicted. The forward-looking statements reflect knowledge and information available at the date of preparation of this announcement and the AstraZeneca Group undertakes no obligation to update these forward-looking statements. The AstraZeneca Group identifies the forward-looking statements by using the words 'anticipates', 'believes', 'intends' and similar expressions in such statements. Important factors that could cause actual results to differ materially from those contained in forward-looking statements, certain of which are beyond the AstraZeneca Group's control, include, among other things: the risks set out in Part II (Risk Factors) of the AstraZeneca shareholder circular published on 12 April 2021; failure or delay in delivery of pipeline or launch of new medicines; failure to meet regulatory or ethical requirements for medicine development or approval; failure to obtain, defend and enforce effective intellectual property (IP) protection and IP challenges by third parties; competitive pressures including expiry or loss of IP rights, and generic competition; price controls and reductions; economic, regulatory and political pressures; uncertainty and volatility in relation to the UK's exit from the EU; failures or delays in the quality or execution of commercial

strategies; failure to maintain supply of compliant, quality medicines; illegal trade in medicines; reliance on third-party goods and services; failure in information technology, data protection or cybercrime; failure of critical processes; uncertainty of expected gains from productivity initiatives; failure to attract, develop, engage and retain a diverse, talented and capable workforce, including following completion of the Acquisition; failure to adhere to applicable laws, rules and regulations; the safety and efficacy of marketed medicines being questioned; adverse outcome of litigation and/or governmental investigations, including relating to the Acquisition; failure to adhere to increasingly stringent anti-bribery and anti-corruption legislation; failure to achieve strategic plans or meet targets or expectations; failure in financial control or the occurrence of fraud; unexpected deterioration in AstraZeneca's or Alexion's financial position; the impact that the COVID-19 global pandemic may have or continue to have on these risks, on AstraZeneca's ability to continue to mitigate these risks, and on AstraZeneca's operations, financial results or financial condition; the risk that a condition to the closing of the Acquisition may not be satisfied, or that a regulatory approval that may be required for the Acquisition is delayed or is obtained subject to conditions that are not anticipated; the risk that AstraZeneca is unable to achieve the synergies and value creation contemplated by the Acquisition, or that AstraZeneca is unable to promptly and effectively integrate Alexion's businesses; and the risk that management's time and attention are diverted on Acquisition -related issues or that disruption from the Acquisition makes it more difficult to maintain business, contractual and operational relationships.

Neither AstraZeneca nor any of its associates or directors, officers or advisers provides any representation, assurance or guarantee that the occurrence of the events expressed or implied in any forward-looking statements in this announcement will actually occur. You are cautioned not to place undue reliance on these forward-looking statements. Other than in accordance with their legal or regulatory obligations (including under the Listing Rules, the Disclosure and Transparency Rules and the Prospectus Regulation Rules of the FCA), AstraZeneca is under no obligation, and AstraZeneca expressly disclaims any intention or obligation to update or revise publicly any forward-looking statements, whether as a result of new information, future events or otherwise.