

| OMB APPROVAL | |
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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| | | | |
|---|---|--|--|
| 1. Name and Address of Reporting Person * <u>GLAXOSMITHKLINE PLC</u> (Last) (First) (Middle) <u>980 GREAT WEST ROAD</u> (Street) <u>BRENTFORD X0 TW8 9GS</u> <u>MIDDLESEX</u> (City) (State) (Zip) | 2. Date of Event Requiring Statement (Month/Day/Year) <u>01/01/2020</u> | 3. Issuer Name and Ticker or Trading Symbol <u>Orchard Therapeutics plc [ORTX]</u> | |
| | | 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below) | 5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|---|--|---|
| Ordinary Shares, nominal value (GBP)0.10 per share | 12,455,252 | I | See footnote ⁽¹⁾⁽²⁾ |

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|-----------------|---|----------------------------|--|--|---|
| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | |

Explanation of Responses:

- The shares reported herein are held of record by Glaxo Group Limited, an indirect, wholly-owned subsidiary of GlaxoSmithKline plc (the "Reporting Person").
- Jon Ellis holds the title of Vice President, Worldwide Business Development R&D at GlaxoSmithKline Services Unlimited, a wholly-owned indirect subsidiary of the Reporting Person. Mr. Ellis is a member of the board of directors of the Issuer.

/s/ Victoria Whyte, Authorized Signatory 12/23/2019

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.