

Director/PDMR Shareholding

March 1, 2018 – Shire plc (LSE: SHP, NASDAQ: SHPG) (the “Company”)

Notification of transactions by person discharging managerial responsibilities

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| 1. | Details of the person discharging managerial responsibilities (“PDMR”) / person closely associated them (“PCA”) | | |
| a) | Name | Perry Sternberg | |
| 2. | Reason for the notification | | |
| a) | Position / status | Head of US Commercial - PDMR | |
| b) | Initial notification / amendment | Initial notification | |
| 3. | Details of the issuer, emission allowance participant, auction platform, auctioneer or auction monitor | | |
| a) | Name | Shire plc | |
| b) | LEI | 54930005LQRLI2UXRQ59 | |
| 4. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares (“ADSs”) | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | <p>Receipt of ADSs following the vesting of Restricted Stock Units (“RSUs”) awarded under the Shire Long Term Incentive Plan 2015 (“LTIP”) on February 26, 2016. In accordance with the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting.</p> <p>(Details of related disposal of ADSs are referenced in section 5. below.)</p> | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 219 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |

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| f) | Place of the transaction | N/A | |
| 5. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of RSUs referenced in section 4. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.6108 | 82 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |
| f) | Place of the transaction | NASDAQ | |
| 6. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Receipt of ADSs following the vesting of Restricted Stock Units ("RSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 27, 2015. In accordance with the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. (Details of related disposal of ADSs are referenced in section 7. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 285 |

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| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 7. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares (“ADSs”) ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of RSUs referenced in section 6. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.2800 | 92 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | NASDAQ | |
| 8. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares (“ADSs”) ISIN: US82481R1068 | |
| b) | Nature of the transaction | Receipt of ADSs following the vesting of Performance Stock Units (“PSUs”) awarded under the Shire Long Term Incentive Plan 2015 (“LTIP”) on February 27, 2015. In accordance with: (i) performance conditions measured over the period January 1, 2015, to December 31, 2017, 38% of the PSUs vested; and (ii) the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the PSUs from the award date to the date of vesting. | |

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| | | (Details of related disposal of ADSs are referenced in section 9. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 307 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 9. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of PSUs referenced in section 8. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the PSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.2800 | 99 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | NASDAQ | |

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| 1. | Details of the person discharging managerial responsibilities ("PDMR") / person closely associated them ("PCA") | |
| a) | Name | Kim Stratton |
| 2. | Reason for the notification | |
| a) | Position / status | Head of International Commercial - PDMR |
| b) | Initial notification / amendment | Initial notification |
| 3. | Details of the issuer, emission allowance participant, auction platform, | |

| auctioneer or auction monitor | | | |
|--------------------------------------|--|--|-----------|
| a) | Name | Shire plc | |
| b) | LEI | 54930005LQRLI2UXRQ59 | |
| 4. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each ("Ordinary Shares") ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | Receipt of Ordinary Shares following the vesting of Restricted Stock Units ("RSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 26, 2016. In accordance with the rules of the LTIP, upon vesting the number of Ordinary Shares to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. (Details of related disposal of Ordinary Shares are referenced in section 5. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | £0 | 370 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |
| f) | Place of the transaction | N/A | |
| 5. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each ("Ordinary Shares") ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | Automated disposal of Ordinary Shares in relation to the vesting of RSUs referenced in section 4. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | £29.9922 | 112 |

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| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |
| f) | Place of the transaction | London Stock Exchange | |
| 6. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each ("Ordinary Shares") ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | Receipt of Ordinary Shares following the vesting of Restricted Stock Units ("RSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 27, 2015. In accordance with the rules of the LTIP, upon vesting the number of Ordinary Shares to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. (Details of related disposal of Ordinary Shares are referenced in section 7. below.) | |
| c) | Price(s) and volume(s) | Price(s) £0 | Volume(s) 607 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 7. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each ("Ordinary Shares") ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | Automated disposal of Ordinary Shares in relation to the vesting of RSUs referenced in section 6. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from | |

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| | | the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | £30.4151 | 183 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | London Stock Exchange | |
| 8. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each ("Ordinary Shares") ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | <p>Receipt of Ordinary Shares following the vesting of Performance Stock Units ("PSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 27, 2015. In accordance with:</p> <p>(i) performance conditions measured over the period January 1, 2015, to December 31, 2017, 38% of the PSUs vested; and</p> <p>(ii) the rules of the LTIP, upon vesting the number of Ordinary Shares to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the PSUs from the award date to the date of vesting.</p> <p>(Details of related disposal of Ordinary Shares are referenced in section 9. below.)</p> | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | £0 | 659 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 9. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |

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| a) | Description of the financial instrument, type of instrument Identification code | Shire plc Ordinary Shares of 5 pence each (“Ordinary Shares”) ISIN: JE00B2QKY057 | |
| b) | Nature of the transaction | Automated disposal of Ordinary Shares in relation to the vesting of PSUs referenced in section 8. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the PSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | £30.4151 | 199 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | London Stock Exchange | |

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| 1. | Details of the person discharging managerial responsibilities (“PDMR”) / person closely associated them (“PCA”) | | |
| a) | Name | Joanne Cordeiro | |
| 2. | Reason for the notification | | |
| a) | Position / status | Chief Human Resources Officer - PDMR | |
| b) | Initial notification / amendment | Initial notification | |
| 3. | Details of the issuer, emission allowance participant, auction platform, auctioneer or auction monitor | | |
| a) | Name | Shire plc | |
| b) | LEI | 54930005LQRLI2UXRQ59 | |
| 4. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares (“ADSs”) ISIN: US82481R1068 | |
| b) | Nature of the transaction | Receipt of ADSs following the vesting of Restricted Stock Units (“RSUs”) awarded under the Shire Long Term Incentive Plan 2015 (“LTIP”) on February 26, 2016. In accordance with the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. | |

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| | | (Details of related disposal of ADSs are referenced in section 5. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 85 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |
| f) | Place of the transaction | N/A | |
| 5. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of RSUs referenced in section 4. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.6108 | 33 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 26, 2018 | |
| f) | Place of the transaction | NASDAQ | |
| 6. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Receipt of ADSs following the vesting of Restricted Stock Units ("RSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 27, 2015. In accordance with the rules of the LTIP, upon vesting the number of ADSs to be | |

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| | | delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. (Details of related disposal of ADSs are referenced in section 7. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 93 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 7. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares ("ADSs") ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of RSUs referenced in section 6. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.2800 | 36 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | NASDAQ | |
| 8. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares ("ADSs") ISIN: US82481R1068 | |

| | | | |
|------------|--|--|-----------|
| b) | Nature of the transaction | <p>Receipt of ADSs following the vesting of Performance Stock Units ("PSUs") awarded under the Shire Long Term Incentive Plan 2015 ("LTIP") on February 27, 2015. In accordance with:</p> <p>(i) performance conditions measured over the period January 1, 2015, to December 31, 2017, 38% of the PSUs vested; and</p> <p>(ii) the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the PSUs from the award date to the date of vesting.</p> <p>(Details of related disposal of ADSs are referenced in section 9. below.)</p> | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 100 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | N/A | |
| 9. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares ("ADSs") | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of PSUs referenced in section 8. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the PSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$125.2800 | 39 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 27, 2018 | |
| f) | Place of the transaction | NASDAQ | |
| 10. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where | | |

| transactions have been conducted | | | |
|---|--|--|-----------|
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares (“ADSs”) ISIN: US82481R1068 | |
| b) | Nature of the transaction | Receipt of ADSs following the vesting of Restricted Stock Units (“RSUs”) awarded under the Shire Long Term Incentive Plan 2015 (“LTIP”) on February 28, 2017. In accordance with the rules of the LTIP, upon vesting the number of ADSs to be delivered was increased by an amount equivalent to the value of dividends paid by the Company in respect of the RSUs from the award date to the date of vesting. (Details of related disposal of ADSs are referenced in section 11. below.) | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$0 | 103 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 28, 2018 | |
| f) | Place of the transaction | N/A | |
| 11. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument Identification code | Shire plc American Depositary Shares (“ADSs”) ISIN: US82481R1068 | |
| b) | Nature of the transaction | Automated disposal of ADSs in relation to the vesting of RSUs referenced in section 10. above. The proceeds of this disposal were used to satisfy personal tax liabilities arising from the vesting of the RSUs. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$128.6176 | 35 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | February 28, 2018 | |

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| f) | Place of the transaction | NASDAQ | |
| 12. | Details of the transaction(s): section to be repeated for (i) each type of instrument; (ii) each type of transaction; (iii) each date; and (iv) each place where transactions have been conducted | | |
| a) | Description of the financial instrument, type of instrument | Shire plc American Depositary Shares (“ADSs”) | |
| | Identification code | ISIN: US82481R1068 | |
| b) | Nature of the transaction | Acquisition of ADSs following the automatic re-investment of dividends received, as paid to shareholders on October 20, 2017. | |
| c) | Price(s) and volume(s) | Price(s) | Volume(s) |
| | | \$145.7400 | 0.1992 |
| d) | Aggregated information - Aggregated volume - Price | N/A (single transaction) | |
| e) | Date of the transaction | October 20, 2017 | |
| f) | Place of the transaction | NASDAQ | |

Oliver Strawbridge
Senior Assistant Company Secretary

For further information please contact:

Investor Relations

| | | |
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NOTES TO EDITORS

About Shire

Shire is the global leader in serving patients with rare diseases. We strive to develop best-in-class therapies across a core of rare disease areas including hematology, immunology, genetic diseases, neuroscience, and internal medicine with growing therapeutic areas in ophthalmics and oncology. Our diversified capabilities enable us to reach patients in more than 100 countries who are struggling to live their lives to the fullest.

We feel a strong sense of urgency to address unmet medical needs and work tirelessly to improve people's lives with medicines that have a meaningful impact on patients and all who support them on their journey.

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