## Q2 2018 Financial Results

Flemming Ornskov, MD, MPH - CEO Thomas Dittrich - CFO

July 31st, 2018

## "Safe Harbor" Statement Under The Private Securities Litigation Reform Act Of 1995

Statements included herein that are not historical facts, including without limitation statements concerning future strategy, plans, objectives expectations and intentions, projected revenues, the anticipated timing of clinical trials and approvals for, and the commercial potential of, inline or pipeline products, are forward-looking statements. Such forward-looking statements involve a number of risks and uncertainties and are subject to change at any time. include, but are not limited to, the following:

Shire's products may not be a commercial success;
increased pricing pressures and limits on patient access as a result of governmental regulations and market developments may affect Shire's future revenues, financial condition and results of operations;

Shire depends on third parties to supply certain inputs and services critical to its operations including certain inputs, services and ingredients critical to its manufacturing processes. Any disruption to the supply chain for any of Shire's products may result in Shire being unable to continue marketing or developing a product or may result in Shire being unable to do so on a commercially viable basis for some period of time;
the manufacture of Shire's products is subject to extensive oversight by various regulatory agencies. Regulatory approvals or interventions associated with changes to manufacturing sites, ingredients or manufacturing processes could lead to, among other things, significant delays, an increase in operating costs, lost product sales, an interruption of research activities or the delay of new product launches;
the nature of producing plasma-based therapies may prevent Shire from timely responding to market forces and effectively managing its production capacity;

Shire has a portfolio of products in various stages of research and development. The successful development of these products is highly uncertain and requires significant expenditures and time, and there is no guarantee that these products will receive regulatory approval;
the actions of certain customers could affect Shire's ability to sell or market products profitably. Fluctuations in buying or distribution patterns by such customers can adversely affect Shire's revenues, financial conditions or results of operations;
failure to comply with laws and regulations governing the sales and marketing of its products could materially impact Shire's revenues and profitability;

Shire's products and product candidates face substantial competition in the product markets in which it operates, including competition from generics;

Shire's patented products are subject to significant competition from generics;
adverse outcomes in legal matters, tax audits and other disputes, including Shire's ability to enforce and defend patents and other intellectual property rights required for its business, could have a material adverse effect on Shire's revenues, financial condition or results of operations;

Shire

Shire may fail to obtain, maintain, enforce or defend the intellectual property rights required to conduct its business; Shire faces intense competition for highly qualified personnel from other companies and organizations;
failure to successfully execute or attain strategic objectives from Shire's acquisitions and growth strategy may adversely affect Shire's financial condition and results of operations; unsuccessful, may adversely affect the development and sale of its products
a slowdown of global economic growth, or economic instability of countries in which Shire does business, could have negative consequences for Shire's business and increase the risk of non-payment by Shire's customers;
changes in foreign currency exchange rates and interest rates could have a material adverse effect on Shire's operating results and liquidity;

Shire is subject to evolving and complex tax laws, which may result in additional liabilities that may adversely affect Shire's financial condition or results of operations;

If a marketed product fails to work effectively or causes adverse side effects, this could result in damage to Shire's reputation, the withdrawal of the product and legal action against Shire;

Shire is dependent on information technology and its systems and infrastructure face certain risks, including from service disruptions, the loss of sensitive or confidential information, cyber-attacks and other security breaches or data leakages that could have a material adverse effect on Shire's revenues, financial condition or results of operations;

Shire faces risks relating to the expected exit of the United Kingdom from the European Union;
Shire incurred substantial additional indebtedness to finance the Baxalta acquisition, which has increased its borrowing costs and may decrease its business flexibility,
the potential uncertainty among our employees, customers, suppliers, and other business partners resulting from the announcement by Takeda Pharmaceutical Company Limited on May 8, 2018 of a recommended offer for Shire under the U.K. Takeover Code; and
a further list and description of risks, uncertainties and other matters can be found in Shire's most recent Annual Report on Form 10 K and in Shire's subsequent Quarterly Reports on Form 10-Q, in each case including those risks outlined in "ITEM1A: Risk Factors" and in Shire's subsequent reports on Form 8-K and other Securities and Exchange Commission filings, all of which are available on Shire's website.

All forward-looking statements attributable to us or any person acting on our behalf are expressly qualified in their entirety by this cautionary statement. Readers are cautioned not to place undue reliance on these forward-looking statements that speak only as o he date hereof. Except to the extent ornerwise required by applicable law, we do not undertake any obligation to update or revis

Agenda

## 1. Business update <br> Flemming Ornskov, MD, MPH CEO

2. Financial review

Thomas Dittrich
CFO
3. Summary

Flemming Ornskov, MD, MPH CEO
4. Q \& A

## We continue to deliver against our key priorities

## Key Achievements in Q2

| Continued |
| :---: |
| commercial execution |

- Product sales growth of $+6 \%$ despite LIALDA generic impact
- Growth driven by Immunology, recently launched products, and international expansion


## Other key updates

- 16 programs in Phase 3 and 7 in registration
- Lanadelumab registrations on track
- Shire Board reached agreement with Takeda Board on the terms of a recommended offer
- Covington plasma site approved
- Oncology divestment to Servier expected to close in Q3 2018


## Solid Q2 commercial and financial performance

Product sales


Non GAAP Diluted Earnings per ADS ${ }^{(1)(4)}$


## Financial highlights

- Product sales of \$3.8B and +6\% growth; $+4 \%$ on a CER basis ${ }^{(2)(4)}$
- Revenues of \$3.9B and +5\% growth
- Non GAAP diluted EPS growth of $+4 \%^{(1)(4)}$
- Non GAAP Free Cash Flow ${ }^{(3)(4)}$ of $\$ 0.8 B$


## Continued execution across key growth drivers

Product sales, \$MM

Immunology franchise


International markets


## Good progress in advancing pipeline



[^0]
## Covington Site supporting continued growth of Shire Immunology

## Fully integrated end-to-end production site



## Update from Covington

- FDA approval received in June 2018 for GAMMAGARD production (fractionation through packaging)
- Commenced shipments shortly after approval
- Plans remain on track to file Albumin in H2 2018 with approval expected in late 2018/early 2019 ${ }^{(1)}$


## Financial Review

Thomas Dittrich
Chief Financial Officer

Shire

## $+6 \%$ product sales growth while absorbing ~\$100M impact from LIALDA generic competition

## Product Sales in \$MM



## Comments

- Solid demand growth overall, 9\% growth excluding the impact of LIALDA generic competition
- Significant growth contribution from recently launched products, including CUVITRU, HYQVIA, ADYNOVATE, GATTEX, NATPARA, and XIIDRA
- Favorable foreign exchange rates added 2 points of growth overall


## Product sales grew +6\% vs prior year



## Non GAAP gross margin ${ }^{(1)(2)}$ has sequentially improved in 2018

Non GAAP gross margin ${ }^{(1)(2)} \%$ of revenue


[^1]
## +4\% Non GAAP EPS growth

|  | Q2 |  | YoY |
| :---: | :---: | :---: | :---: |
| \$MM | 2018 | 2017 | Change |
| Product sales | 3,809 | 3,592 | +6\% |
| Royalties and other revenues | 111 | 154 | -28\% |
| Total revenue | 3,920 | 3,746 | +5\% |
| Non GAAP gross profit | 2,883 | 2,849 | +1\% |
| Non GAAP gross margin | 73.6\% | 76.1\% | -2.5ppc |
| Non GAAP R\&D | 408 | 386 | +6\% |
| Non GAAP SG\&A | 849 | 851 | -0\% |
| Non GAAP combined R\&D and SG\&A | 1,256 | 1,237 | +2\% |
| Combined Non GAAP R\&D and SG\&A \% | 32.1\% | 33.0\% | -0.9 ppc |
| Non GAAP EBITDA | 1,627 | 1,612 | +1\% |
| Non GAAP EBITDA margin | 41.5\% | 43.0\% | -1.5 ppc |
| Non GAAP depreciation | 135 | 121 | +12\% |
| Non GAAP other expense, net | 90 | 149 | -39\% |
| Non GAAP effective tax rate | 15.8\% | 15.8\% | 0.0 ppc |
| Non GAAP net income | 1,186 | 1,135 | +4\% |
| Non GAAP EPS | 3.88 | 3.73 | +4\% |

## Cash Flow \& Balance Sheet

 On track to meet our leverage target for 2018|  |  | Q2'18 <br> \$B | Q2 '17 <br> \$B | YoY Change | $\begin{gathered} \text { Q1 '18 } \\ \$ B \end{gathered}$ | QoQ Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Key Cash | Capital expenditure | 0.2 | 0.2 | 0.0 | 0.2 | 0.0 |
| Flow | Non GAAP free cash flow ${ }^{(1)(4)}$ | 0.8 | 1.1 | (0.3) | 0.9 | (0.2) |
| Items | Dividends paid | 0.28 | 0.23 | 0.04 | - | 0.28 |
| Key Balance Sheet Items | Cash \& equivalents | 0.3 | 0.3 | (0.0) | 0.3 | (0.0) |
|  | Debt outstanding | 17.9 | 21.6 | (3.6) | 18.5 | (0.6) |
|  | Non GAAP net debt ${ }^{(2)(4)}$ | 17.7 | 21.3 | (3.6) | 18.2 | (0.5) |
|  | Non GAAP net debt ${ }^{(2)} /$ Non GAAP EBITDA $^{(3)}$ ratio $^{(4)}$ | $2.7 x$ | 3.5 x | -0.8x | $2.8 x$ | -0.1x |

[^2]
## 2018 guidance unchanged

|  | Full Year 2018 <br> Guidance ${ }^{(1)}$ |
| :--- | :---: |
| Total Revenue ${ }^{(2)}$ | $\$ 15.4-\$ 15.9$ billion |
| Non GAAP gross margin ${ }^{(3)}($ as $\%$ of total revenue) | $73.5 \%-75.5 \%$ |
| Non GAAP combined R\&D and SG\& A ${ }^{(3)}$ | $\$ 4.9-\$ 5.1$ billion |
| Non GAAP Depreciation ${ }^{(3)}$ | $\$ 575-\$ 625$ million |
| Non GAAP Net Interest ${ }^{(3)}$ | $\$ 450-\$ 550$ million |
| Non GAAP effective tax rate ${ }^{(3)}$ | $16 \%-18 \%$ |
| Non GAAP diluted EPS - ADS $^{(3)}$ | $\$ 14.90-\$ 15.50$ |
| Capital Expenditure | $\$ 800-\$ 900$ million |


|  | Revenue | Earnings |
| :--- | :---: | :---: |
| EUR | $-1.5 \%$ | $-1.0 \%$ |
| GBP | $-0.2 \%$ | $-0.3 \%$ |
| CHF | $-0.1 \%$ | $0.1 \%$ |
| CAD | $-0.2 \%$ | $-0.1 \%$ |
| JPY | $-0.2 \%$ | $-0.4 \%$ |
| Other ${ }^{(4)}$ | $-1.1 \%$ | $-1.5 \%$ |

Our 2018 Outlook is based on January 30th, 2018 actual exchange rates ( $€: \$ 1.242422, £: \$ 1.417678$, CHF:\$1.071076, CAD:\$0.811779 $¥ \$ \$ 0.009184$ ). The estimated impact of a $10 \%$ appreciation in the US Dollar against the respective currency, over the remainder of the year, on our 2018 Guidance is as follows:

Note: Risks associated with this outlook include the potential uncertainty resulting from the announcement by Takeda Pharmaceutical Company Limited that it is considering making a possible offer for Shire

## Summary

## Chire

## Key Q2 2018 achievements and milestones for remainder of 2018

## Key Q2 2018 achievements

- Continued commercial execution 6\% product sales growth despite LIALDA generic impact
- Covington site approval
- Shire Board reached agreement with Takeda Board on terms of a recommended offer for Takeda to acquire Shire

Expectations for remainder of 2018

- Lanadelumab potential approvals in US, Europe, \& Canada ${ }^{(1)}$
- Prucalopride approval in US ${ }^{(1)}$
- Oncology divestment expected to close in Q3


## Shire

In the fight against rare disease, where there's a will, there's always a way.

Champion the fight against rare disease with us at shire.com

## Pipeline overview

## RESEARCH AND PRECLINICAL

| PHASE 1 | PHASE 2 |  |
| :---: | :---: | :---: |
| SHP611 (MLD) | SHP607 ${ }^{(1)}$ <br> (Chronic Lung <br> Disease) | $\begin{aligned} & \text { SHP652 }^{(4)} \\ & (\mathrm{SLE}) \end{aligned}$ |
| SHP631 <br> (Hunter CNS) | SHP615- U.S. (Seizures) LCM for BUCCOLAM | SHP659 <br> (Dry Eye Disease) |
| SHP634 - Japan (Hypoparathyroidism) LCM for NATPARA | SHP625 ${ }^{(2)}$ <br> (PFIC) | $\begin{aligned} & \hline \text { SHP673 - Japan } \\ & \text { (Pancreatic Cancer, } \\ & \text { Post Gemcitabine) } \\ & \text { LCM for ONIVYDE } \end{aligned}$ |
| SHP639 <br> (Glaucoma) | SHP625 (ALGS) | SHP673 <br> (Pancreatic Cancer, <br> ist line) <br> LCM for ONIVYDE |
| SHP654 <br> (Hemophilia A, Gene Therapy) |  |  |
| SHP673 (Small Cell Lung Cancer, $2^{\text {nd }}$ Line) LCM for ONIVYDE |  |  |
| SHP680 (Neurological Conditions) |  |  |


| PHASE 3 |  |
| :--- | :--- |
| SHP609 <br> (Hunter IT) <br> Ph 2/3 SHP633 <br> (Pediatric SBS) <br> LCM for GATTEX <br> SHP615 - Japan <br> (Seizures) <br> LCM for BUCCOLAM SHP640 <br> (Infectious <br> Conjunctivitis) <br> SHP616 - Japan <br> (HAE Prophylaxis) <br> LCM for CINRYZE SHP647 <br> (UC)   |  |

## REGISTRATION

2018
APPROVALS

## 35+ programs

- Internally developed and via partnership
- Both rare disease and specialty conditions
- Multiple modalities including NCEs, MAbs, proteins, and gene therapy



## SHP633 - Japan

 (Adult SBS) LCM for GATTEX| SHP647 <br> (CD) |
| :--- |
| SHP655 <br> (cTTP) |


| SHP671 <br> (CIDP) <br> LCM for HYQVIA | SHP667 - Japan <br> (HAE) <br> LCM for FIRAZYR |
| :--- | :--- |
| SHP671 <br> (Pediatric PID) <br> LCM for HYQVIA SHP677 <br> (VWD) <br> LCM for VONVENDI |  |

## SHP672

 CHAWI surgery)SHP626 (NASH) phase 2 study discontinued. Currently evaluating options for the program.
$\square$

## Q2 product sales performance

| Product Sales | Q2 2018 Product Sales |  |  | YoY Growth |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| \$MM | U.S. | International | Total | Reported | CER ${ }^{(1)(2)}$ |
| Immunoglobulin Therapies | 457 | 155 | 612 | +20\% | +19\% |
| Hereditary Angioedema ${ }^{(3)}$ | 326 | 39 | 365 | +9\% | +9\% |
| Bio Therapeutics | 80 | 92 | 172 | +0\% | -2\% |
| Immunology Total | 864 | 286 | 1,150 | +13\% | +12\% |
| Hemophilia | 373 | 374 | 747 | +0\% | -2\% |
| Inhibitor Therapies | 55 | 149 | 204 | -7\% | -11\% |
| Hematology Total | 428 | 523 | 951 | -1\% | -4\% |
| VYVANSE | 487 | 69 | 556 | +7\% | +7\% |
| ADDERALL XR | 76 | 4 | 80 | +12\% | +11\% |
| MYDAYIS | 17 | 0 | 17 | N/M | N/M |
| Other Neuroscience ${ }^{(4)}$ | 4 | 37 | 41 | +37\% | +30\% |
| Neuroscience Total | 583 | 111 | 694 | +9\% | +8\% |
| ELAPRASE | 44 | 133 | 177 | +10\% | +7\% |
| REPLAGAL | 0 | 126 | 126 | +3\% | -2\% |
| VPRIV | 38 | 51 | 90 | +2\% | -1\% |
| Genetic Diseases Total | 82 | 310 | 392 | +6\% | +2\% |
| GATTEX/REVESTIVE | 118 | 16 | 134 | +77\% | +76\% |
| NATPARA/NATPAR | 62 | 2 | 65 | +88\% | +87\% |
| Other Internal Medicine ${ }^{(5)}$ | 0 | 34 | 35 | -2\% | -9\% |
| Internal Medicine Total | 180 | 53 | 233 | +61\% | +58\% |
| LIALDA/MEZAVANT | 75 | 31 | 106 | -49\% | -50\% |
| PENTASA | 78 | 0 | 78 | -7\% | -7\% |
| Other Established Brands ${ }^{(6)}$ | 13 | 22 | 35 | -27\% | -30\% |
| Established Brands Total | 166 | 53 | 219 | -36\% | -36\% |
| Ophthalmics | 99 | 1 | 100 | +75\% | +75\% |
| Oncology | 48 | 23 | 71 | +14\% | +11\% |
| Total Product Sales | 2,450 | 1,358 | 3,809 | +6\% | +4\% |

(1) Growth rates are at Constant Exchange Rate, a Non GAAP financial measure. CER growth is computed by restating 2018 results using average 2017 foreign exchange rates for the relevant period.
(2) See slide 28 for a list of items excluded from the US GAAP equivalent used to calculate all Non GAAP measures detailed above. See slides 24 to 27 for a reconciliation of Non GAAP financial measures to the most directly comparable measure under US GAAP.
(3) For 2018 reporting (including comparative information), HAE sales have been reclassified to the Immunology franchise from Genetic Diseases.
(4) Other Neuroscience includes INTUNIV, EQASYM, and BUCCOLAM
(5) Other Internal Medicine includes AGRYLIN, PLENADREN, and RESOLOR.
(6) Other Established Brands includes FOSRENOL and CARBATROL.

## HAE franchise details

## Product Sales

|  | 2016 |  |  |  |  | 2017 |  |  |  |  | 2018 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$MM | Q1 | Q2 | Q3 | Q4 | FY | Q1 | Q2 | Q3 | Q4 | FY | Q1 | Q2 |
| CINRYZE | 164 | 173 | 165 | 178 | 680 | 226 | 176 | 57 | 241 | 699 | 147 | 136 |
| US | 156 | 164 | 152 | 168 | 639 | 216 | 165 | 46 | 229 | 657 | 135 | 124 |
| International | 8 | 10 | 14 | 10 | 42 | 10 | 11 | 11 | 11 | 43 | 12 | 12 |
| FIRAZYR | 128 | 137 | 146 | 167 | 579 | 129 | 137 | 196 | 202 | 663 | 206 | 211 |
| US | 113 | 120 | 129 | 149 | 511 | 112 | 118 | 174 | 178 | 581 | 182 | 185 |
| International | 15 | 17 | 17 | 18 | 68 | 17 | 19 | 22 | 24 | 82 | 24 | 27 |
| KALBITOR | 10 | 18 | 11 | 13 | 52 | 12 | 21 | 16 | 19 | 67 | 15 | 17 |
| US | 10 | 18 | 11 | 13 | 52 | 12 | 21 | 16 | 19 | 67 | 15 | 17 |
| International | - | - | - | - | - | - | - | - | - | - | - | - |
| Total HAE | 303 | 327 | 323 | 358 | 1,311 | 366 | 334 | 268 | 461 | 1,430 | 369 | 365 |
| Growth | +26\% | +35\% | +4\% | +33\% | +23\% | +21\% | +2\% | -17\% | +29\% | +9\% | +1\% | 9\% |

## Reported regional product sales and growth analysis

| Q2 2018 | US | EU | LATAM | APAC $^{(1)}$ | Other | Total |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Product Sales \$MM | 2,450 | 656 | 202 | 222 | 279 | 3,809 |
| \% of Product Sales | $64 \%$ | $17 \%$ | $5 \%$ | $6 \%$ | $7 \%$ |  |
| YoY Growth | $\mathbf{+ 3} \%$ | $\mathbf{+ 5} \%$ | $\mathbf{+ 1 7} \%$ | $\mathbf{+ 9} \%$ | $\mathbf{+ 3 0} \%$ | $\mathbf{+ 6 \%}$ |

## Income statement growth analysis

| \$MM | $\begin{gathered} 2017 \\ \text { Q1 } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { Q2 } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { Q3 } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { Q4 } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { FY } \end{gathered}$ | $\begin{gathered} 2018 \\ \text { Q1 } \end{gathered}$ | $\begin{gathered} 2018 \\ \text { Q2 } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total product sales | \$3,412 | \$3,592 | \$3,534 | \$3,911 | \$14,449 | \$3,637 | \$3,809 |
| versus prior year | +110\% | +55\% | +7\% | +8\% | +33\% | +7\% | +6\% |
| Non GAAP royalties \& other revenues ${ }^{(1)(8)}$ | \$160 | \$154 | \$164 | \$159 | \$637 | \$129 | \$111 |
| versus prior year | +95\% | +44\% | +20\% | -14\% | +25\% | -20\% | $-28 \%$ |
| Non GAAP revenues ${ }^{(2)(8)}$ | \$3,572 | \$3,746 | \$3,698 | \$4,070 | \$15,086 | \$3,766 | \$3,920 |
| versus prior year | +109\% | +54\% | +7\% | +7\% | +32\% | +5\% | +5\% |
| Non GAAP gross margin ${ }^{(3)(8)}$ | 78.3\% | 76.1\% | 76.5\% | 72.1\% | 75.6\% | 72.7\% | 73.6\% |
| Combined Non GAAP $R \& D$ and $S G \& A^{(4)(8)}$ | \$1,221 | \$1,237 | \$1,212 | \$1,247 | \$4,917 | \$1,133 | \$1,256 |
| versus prior year | +88\% | +32\% | -2\% | -8\% | +18\% | -7\% | +2\% |
| Non GAAP EBITDA Margin ${ }^{(5)(8)}$ | 44\% | 43\% | 44\% | 41\% | 43\% | 43\% | 42\% |
| Non GAAP tax rate ${ }^{(6)(8)}$ | 16\% | 16\% | 15\% | 14\% | 15\% | 14\% | 16\% |
| Non GAAP diluted Earnings per ADS ${ }^{(7)(8)}$ | \$3.63 | \$3.73 | \$3.81 | \$3.98 | \$15.15 | \$3.86 | \$3.88 |
| versus prior year | +14\% | +10\% | +20\% | +18\% | +16\% | +6\% | +4\% |

(1) The most directly comparable measure under US GAAP is royalties and other revenues (Q2 2018: \$111m, Q2 2017: \$154m).
(2) The most directly comparable measure under US GAAP is royalties and other revenues (Q2 2018: \$111m, Q2 20
3) The most directly comparable measure under US GAAP is gross margin as a percentage of total revenues (Q2 2018:71.7\%, Q2
4) The most directly comparable measure under US GAAP is combined R\&D and SG\&A (Q2 2018: $\$ 1,335 \mathrm{~m}, \mathrm{Q} 2$ 2017: $\$ 1,442 \mathrm{~m}$ ). 2017:70.4\%),
(4) The most directly comparable measure under US GAAP is combined R\&D and SG\&A (Q2 2018: $\$ 1,335 \mathrm{~m}, \mathrm{Q} 2$ 2017: $\$ 1,442 \mathrm{~m}$ ),
(5) The most directly comparable measure under US GAAP is net income margin as a percentage of total revenues (Q2 2018:16\%,
(6) The most directly comparable measure under US GAAP is tax rate (Q2 2018: 17\%, Q2 2017:9\%).
(7) The most directly comparable measure under US GAAP is EPS-ADS (Q2 2018: \$2.01, Q2 2017: \$0.79)
(8) See slide 28 for a list of items excluded from the US GAAP equivalent used to calculate all Non GAAP measures detailed above. See slides 24 to 27 for a reconciliation of Non GAAP financial measures to the most directly comparable measure under US GAAP.

## Non GAAP free cash flow reconciliation

| Net cash provided by operating activities to <br> Non GAAP free cash flow reconciliation | Q2 2018 <br> \$MM | Q2 2017 <br> \$MM | Reported <br> Growth |
| :--- | :---: | :---: | :---: |
| Net cash provided by operating activities | $\mathbf{9 4 0}$ | $\mathbf{1 , 2 2 3}$ | $\mathbf{- 2 3 \%}$ |
| Capital expenditure | $(184)$ | $(179)$ |  |
| Payments relating to license arrangements | - | 20 |  |
| Non GAAP free cash flow ${ }^{(1)(2)}$ | $\mathbf{7 5 6}$ | $\mathbf{1 , 0 6 4}$ | $\mathbf{- 2 9 \%}$ |

## GAAP to Non GAAP reconciliation <br> For the three months ended June 30, 2018



## GAAP to Non GAAP reconciliation For the three months ended June 30, 2017

| \$MM | GAAP | Adjustments |  |  |  |  | Non GAAP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (a) | b) | (c) | d) | (e) |  |
| Total Revenues | 3,745.8 | - | - | - | - | - | 3,745.8 |
| Costs and expenses: |  |  |  |  |  |  |  |
| Cost of product sales | 1,108.9 | - | (145.0) | - | - | (67.0) | 896.9 |
| R\&D | 542.4 | (20.0) | (123.7) | - | - | (12.8) | 385.9 |
| SG\&A | 899.1 | - | - | - | (7.6) | (40.9) | 850.6 |
| Amortization of acquired intangible assets | 434.1 | (434.1) | - | - | - | - | - |
| Integration and acquisition costs | 343.7 | - | (343.7) | - | - | - | - |
| Reorganization costs | 13.6 | - | - | (13.6) | - | - | - |
| Gain on sale of product rights | 4.8 | - | - | (4.8) | - | - | - |
| Depreciation | - | - | - | - | - | 120.7 | 120.7 |
| Total operating expenses | 3,346.6 | (454.1) | (612.4) | (18.4) | (7.6) | - | 2,254.1 |
| Operating Income | 399.2 | 454.1 | 612.4 | 18.4 | 7.6 | - | 1,491.7 |
| Total other expense, net | (137.7) | - | 1.7 | (13.2) | - | - | (149.2) |
| Income from continuing operations before income taxes |  |  |  |  |  |  |  |
| and equity earnings of equity method investees | 261.5 | 454.1 | 614.1 | 5.2 | 7.6 | - | 1,342.5 |
| Income taxes | (24.3) | (111.5) | (69.9) | (3.2) | (3.0) | - | (211.9) |
| Equity in earnings of equity method investees, net of taxes | 4.3 | - | - | - | - | - | 4.3 |
| Income from continuing operations | 241.5 | 342.6 | 544.2 | 2.0 | 4.6 | - | 1,134.9 |
| Loss from discontinued operations, net of tax | (1.2) | - | - | 1.2 | - | - | - |
| Net income | 240.3 | 342.6 | 544.2 | 3.2 | 4.6 | - | 1,134.9 |
| No. of Shares | 912.7 |  |  |  |  |  | 912.7 |
| Diluted earnings per ADS | \$0.79 | \$1.13 | \$1.79 | \$0.01 | \$0.02 | - | \$3.73 |

The following items are included in Adjustments:
(a) Amortization and asset impairments: Impairment of IPR\&D intangible asset ( $\$ 20.0$ million), amortization of intangible assets relating to intellectual property rights acquired ( $\$ 434.1$ million), and tax effect of adjustments;
(b) Acquisition and integration activities: Expense related to the unwind of inventory fair value adjustments primarily associated with Baxalta ( $\$ 145.0$ million), costs relating to license arrangements (\$ $\$ 123.7$ million), acquisition and integration costs primarily associated with Baxalta ( $\$ 192.5$ million), net charge related to the change in the fair value of contingent consideration liabilities primarily related to SHP643 (\$151.2 million), amortization of one-time upron borrowing costs for Baxalta and Dyax (\$1.7 million), and tax effect of adjustments;
(c) Divestments, reorganizations and discontinued operations: Net loss on re-measurement of DAYTRANA contingent consideration to fair value (\$4.8 million), reorganization costs primarily relating to the closure of offices (\$13.6 million), gains on sale of long-term investments (\$13.2 million), tax effect of adjustments and loss from discontinued operations, net of tax ( $\$ 1.2$ million)
(d) Legal and litigation costs: Costs related to litigation, government investigations, other disputes and external legal costs ( $\$ 7.6$ million), and tax effect of adjustments; and
(e) Depreciation reclassification: Depreciation of $\$ 120.7$ million included in cost of product sales, R\&D and SG\&A for US GAAP separately disclosed for the presentation of Non GAAP earnings.

## GAAP to Non GAAP reconciliation <br> For the three months ended June 30, 2018 and 2017

Reconciliation of U.S. GAAP net income to Non GAAP EBITDA and Non GAAP Operating income:

|  | 3 months ended June 30, |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2018 |  | 2017 |  |
| U.S. GAAP net income | \$ | 615.5 | \$ | 240.3 |
| Add back/(deduct): |  |  |  |  |
| Loss/(gain) from discontinued operations, net of taxes |  | - |  | 1.2 |
| Equity in earnings of equity method investees, net of taxes |  | (5.7) |  | (4.3) |
| Income taxes |  | 124.4 |  | 24.3 |
| Other expense, net |  | 96.0 |  | 137.7 |
| U.S. GAAP operating income from continuing operations |  | 830.2 |  | 399.2 |
| Add back/(deduct) Non GAAP adjustments: |  |  |  |  |
| Expense related to the unwind of inventory fair value adjustments |  | 5.8 |  | 145.0 |
| Impairment of acquired intangible assets |  | 10.0 |  | 20.0 |
| Costs relating to license arrangements |  | - |  | 123.7 |
| Legal and litigation costs |  | - |  | 7.6 |
| Amortization of acquired intangible assets |  | 457.6 |  | 434.1 |
| Integration and acquisition costs |  | 179.3 |  | 343.7 |
| Reorganization costs |  | 8.8 |  | 13.6 |
| Loss on sale of product rights |  | - |  | 4.8 |
| Depreciation |  | 135.0 |  | 120.7 |
| Non GAAP EBITDA |  | 1,626.7 |  | 1,612.4 |
| Depreciation |  | (135.0) |  | (120.7) |
| Non GAAP operating income | \$ | 1,491.7 | \$ | 1,491.7 |
| Net income margin ${ }^{(1)}$ |  | 16\% |  | $6 \%$ |
| Non GAAP EBITDA margin ${ }^{(2)}$ |  | 42\% |  | 43 \% |

## Non GAAP measures

This presentation contains financial measures not prepared in accordance with U.S. GAAP. These measures are referred to as "Non GAAP measures and include: Non GAAP total revenues; Non GAAP operating income; Non GAAP income tax expense; Non GAAP net income; measures and include: No GAAP otar revenues, No
Non GAAP diluted earnings per ADS; Non GAAP effective tax rate; Non GAAP CER; Non GAAP cost of sales; Non GAAP gross margin;
Non GAAP RLD: Non Non GAAP R\&D; Non GAAP SG\&A; Non GAAP other expense, net; Non GAAP tax adjustments; Non GAAP free cash flow; Non GAAP ne
debt; Non GAAP EBITDA; and Non GAAP EBITDA margin.

The Non GAAP measures exclude the impact of certain specified items that are highly variable, difficult to predict and of a size that may substantially impact Shire's operations. Upfront and milestone payments related to in-licensing and acquired products that have been expensed as R\&D are also excluded as specified items as they are generally uncertain and often result in a different payment and expense ecognition pattern than ongoing internal R\&D activities. Intangible asset amortization has been excluded from certain measures to facilitate an evaluation of current and past operating performance, particularly in terms of cash returns, and is similar to how managem ent internally will provide investors with an additional analysis of Shire's results of operations, particularly in evaluating performance from one period to another.
Shire's management uses Non GAAP financial measures to make operating decisions as they facilitate additional internal comparisons of Shire's performance to historical results and to competitors' results, and provides them to investors as a supplement to Shire's reported measures when assessing the performance and compensation of employees, including Shire's executive directors.
The Non GAAP financial measures used by Shire may be calculated differently from, and therefore may not be comparable to, similarly titled
 calculated in accordance with U.S. GAAP, and Shire's financial results calculated in accordance with U.S. GAAP and reconciliations to those inancial statements should be carefully evaluated.

## Non GAAP Financial Measure Descriptions

Where applicable, the following items, including their tax effect, have been excluded when calculating Non GAAP earnings and from our Non GAAP outlook:
Amortization and asset impairments:
Intangible asset amortization and impairment charges; and
Other than temporary impairment of investments.
Acquisitions and integration activities
Up-front payments and milestones in respect of in-licensed and acquired products;
Costs associated with acquisitions, including transaction costs, fair value adjustments on contingent consideration and acquired
inventory;
Costs asso
Non-controciated with the integration of companies; and
glerests in console interest entities
Out-license, divestments, reorganizations and discontinued operations:
Revenue from up-front and milestone receipts from out-license arrangements:

- Gains and losses on the sale of non-core assets;

Costs associated with restructuring and reorganization activities;
Termination costs; and
egal and litigation costs
Net legal costs related to the settlement of litigation, government investigations and other disputes (excluding internal legal team costs).

Additionally, in any given period Shire may have significant, unusual or non-recurring gains or losses, which it may exclude from its Non

GAAP earnings for that period. When applicable, these items would be fully disclosed and incorporated into the required reconciliations from U.S. GAAP to Non GAAP measures.

Depreciation, which is included in Cost of sales, R\&D and SG\&A costs in our U.S. GAAP results, has been separately disclosed for
presentational purposes.
Free cash flow represents net cash provided by operating activities, excluding up-front and milestone payments, or receipts, for in-licensed and acquired products, but including capital expenditure in the ordinary course of business.
Non GAAP net debt represents cash and cash equivalents less short and long term borrowings, capital leases and other debt.
A reconciliation of Non GAAP financial measures to the most directly comparable measure under U.S. GAAP is presented on pages 24 to 27.

Non GAAP CER growth is computed by restating 2018 results using average 2017 foreign exchange rates for the relevant period. Average exchange rates used by Shire for the three months ended June 30, 2018 were $\$ 1.37: £ 1.00$ and $\$ 1.20: € 1.00$ (2017: $\$ 1.28: £ 1.00$ and \$1.09: $€ 1.00$ ).
A reconciliation of 2020 Non GAAP EBITDA margin to U.S. GAAP net income margin cannot be provided because we are unable to forecas with reasonable certainty many of the items necessary to calculate such comparable GAAP measures, including asset impairments, acquisitions and integration related expenses, divestments, reorganizations and discontinued operations related expenses, legal settlement our results computed in accordance with atter 2018 to the most comparable GAAP measures would make the forecasted comparable GAAP measures nearly impossible to predict
with reasonable certainty and therefore inherently unreliable.

## PROFIT FORECASTS

In its FY 2017 results announcement on February 14, 2018 (FY 2017 Announcement), Shire published its full year 2018 outlook for total revenue ${ }^{(1)}$ ) of $\$ 15.4-\$ 15.9$ billion, GAAP diluted EPS of $\$ 7.30-\$ 7.90$, and non-GAAP diluted EPS of $\$ 14.90-\$ 15.50$ (Full Year 2018 Outlook). Shire also announced "We are committed to achieving our projected revenue target of $\$ 17-\$ 18$ billion in 2020" and "With the already disclosed manufacturing and SG\&A cost reduction initiatives, we are on track to achieve mid-forties Non-GAAP EBITDA margin by $2020^{\prime \prime}$ (Mid-Term Outlook).

Certain of the statements on pages 12 and 15 of this presentation include a "profit forecast" for the purposes of Rule 28 of the City Code on Takeovers and Mergers (the "Code") which was first contained in the FY 2017 Announcement.
In accordance with Rule 28.1 (c) of the Code, the directors of Shire confirm that: (i) each of the Full Year 2018 Outlook and the Mid-Term . Outlook remains valid and has been properly compiled on the basis of the assumptions stated in the FY 2017 Announcement; and (ii) the
basis of accounting used for each of the Full Year 2018 Outlook and the Mid-Term Outlook is consistent with Shire's accounting policies.

The Full Year 2018 Outlook and the Mid-Term Outlook do not take into account, and exclude the impact of, the anticipated completion of the sale of the Oncology business to Servier S.A.S. (as announced by Shire on April 16, 2018).
${ }^{1)}$ Management is providing guidance for total revenue. Total revenue is comprised of total product sales and royalties \& other revenues. Pursuant to a change in U.S. GAAP related to accounting for revenue, certain revenue formerly classified as royalties are now recorded as product sales.


[^0]:    (1) Pending pediatric written request (PWR) approval by FDA. (2) Subject to regulatory approval.
    (3) Top line data for induction study (301). All approvals based on standard regulaty
    All approvals based on standard regulatory review timelines. Programs with Breakthrough Designation reflect accelerated review/approvals.
    Note: Timings are approximated to the nearest quarter and where appropriate subject to regulatory approval.
    CD: Crohn's Disease; DED: Dry Eye Disease; CIC: Chronic Idiopathic Constipation; HAE: Hereditary Angioedema; VWD: Von Willebrand Disease; ADHD: Attention Deficit Hyperactivity Disorder; EoE;

[^1]:    Shire
    (1) The most directly comparable measure under US GAAP is gross margin as a percentage of total revenues (Q2 2018: 71.7\%, Q1 2018: 69.9\%, Q2 2017: 70.4\%, Q4 2017: 69.5\%).
    (2) See slide 28 for a list of items excluded from the US GAAP equivalent used to calculate all Non GAAP measures detailed above. See slides 24 to 27 for a reconciliation of Non GAAP financial measures to the most directly comparable measure under US GAAP.

[^2]:    (1) The most directly comparable measure under US GAAP is Net cash provided by operating activities (Q2 2018: \$940m, Q2 2017: \$1,223m, Q1 2018: \$1,010m).
    (2) Non GAAP net debt represents cash and cash equivalents less short and long term borrowings, capital leases and other debt.
    (3) Non GAAP EBITDA represents 12 months trailing Non GAAP EBITDA.
    (4) See slide 28 for a list of items excluded from the US GAAP equivalent used to calculate all Non GAAP measures detailed above. See slides 24 to 27 for a reconciliation of Non GAAP financial measures to the most directly comparable measure under US GAAP

