

Equity Research

January 30, 2019

Mark Palmer

(212) 588-6582 mpalmer@btig.com

Giuliano Bologna

(212) 588-6583 gbologna@btig.com

DVDI

PYPL	\$92.42
12-month target	\$95.00
BUY	
52-week range	\$71.73 - \$94.28
Market Cap (m)	\$110,812
Price Performance	
—— PYPL	103.71
—— SPX	95.52
4 . 10	87.33
A STATE OF THE STA	79.14
1 74	70.95
	62.76

¢02.42

Financials

PayPal Holdings, Inc.

PYPL Fails to Exceed High Expectations Bar with 4Q18 Report, But Growth Story on Track; Reiterate Buy

Judging from the negative reaction to PayPal's (PYPL) 4Q18 earnings report during extended trading today, investors had set a high expectations bar for the company heading into the print such that a good-but-not-great report was not sufficient to buoy the stock. With that said, we saw much in PYPL's report to support our view that the company's growth story remains very much on track.

- ▶ While PYPL posted a 4Q18 adjusted earnings per share beat \$0.69 versus the consensus estimate of \$0.67 and our estimate of \$0.66 some investors were apparently disappointed that the company's revenue of \$4.23bn fell short of the consensus estimate of \$4.24bn even as it was near the midpoint of management's guidance range. The main culprit was eBay (EBAY, Not Rated); management noted that if EBAY's 4Q18 contribution had matched that of 3Q18, then PYPL would have collected an incremental \$32mm of revenue.
- ▶ With shares of PYPL having surged by 20.5% since December 24 and outperforming Visa (V, Not Rated) and Mastercard (MA, Not Rated) which rose by 13.0% and 16.5%, respectively, during that span, we believe a minor miss versus expectations was likely to trigger a retreat.
- We are reiterating our Buy recommendation on PYPL and price target of \$95 based on 17x the company's FY20E adjusted EBITDA of \$5,891mm. We believe PYPL's shares continue to warrant a premium multiple in light of its growth trajectory (as well as the \$10.1bn in cash on its balance sheet at YE18) and that investors should view a pullback in the company's share price tomorrow as a buying opportunity.
- Our focus heading into PYPL's 4Q18 print had been on total payment volume (TPV), payment transaction volume, monetization of social peer-to-peer app Venmo and new account growth, and the digital payments network shined in all four.
- ► Valuation: Our \$95 price target for PayPal is based on 17x the company's FY20E adjusted EBITDA of \$5,891mm. The multiple we employ is based on comparable-company analysis.

Estimates

Source: IDC

	1Q18 A	2Q18 A	3Q18 A	4Q18 A	FY18 A	1Q19 E	2Q19 E	3Q19 E	4Q19 E	FY19 E	FY20 E
Sales	3,685	3,857	3,683	4,226	15,451	4,132	4,366	4,476	5,094	18,067	21,504
EBITDA	938	1,012	940	1,146	4,036	1,102	1,146	1,128	1,488	4,864	5,891
Diluted EPS (Adj.)	0.57	0.58	0.58	0.69	2.42	0.68	0.68	0.66	0.89	2.91	3.51

Source: BTIG Estimates and Company Documents (\$ in millions, except per share amount)



- ▶ PYPL's TPV increased by 25% year-over-year on an FX-neutral basis to \$164bn while payment transaction volume increased by 28% to 2.87bn. That rate of growth was down from the 28% rate of TPV growth that the company had posted in 4Q17 which management attributed in large part to zero growth from eBAY (EBAY, Not Rated) PYPL's TPV ex.-EBAY was up 29% during the quarter.
- ▶ We believe PYPL's lack of TPV growth from EBAY during 4Q18 and the fact that the company's Merchant Services revenue has grown at a rate 6x that of its revenue from EBAY since 2015 should help to ease whatever sting remains from EBAY's decision announced last January to replace PYPL with Adyen (ADYEN NA) as its primary payments provider in 2020. Management noted that Venmo during 4Q18 surpassed EBAY in terms of TPV on PYPL's platform.
- ▶ Meanwhile, PYPL during 4Q18 added a record 13.8mm new active accounts, up 58% versus the prior year period, including 2.9mm stemming from the company's 2018 acquisitions. Management attributed the surge in growth to its partnerships including 40 bankled marketing campaigns to drive consumers to PYPL's platform, and they said they see significant runway ahead in that metric.
- ▶ Perhaps most encouraging among PYPL's 4Q18 highlights was that 29% of Venmo's users had engaged in a monetizable experience through December, up from 24% in 3Q18, 17% in 2Q18 and 13% in May. That figure made even more meaningful the 80% increase in volume to \$19bn that Venmo reported during 4Q18, in our view.
- ► Management during today's conference call said Venmo had a revenue run-rate greater than \$200mm at YE18. They noted that the figure was split between Instant Cash Out and commerce-related revenue.
- ▶ PYPL's number of payment transactions per active accounts on a trailing 12-month basis increased 9% year-over-year to 36.9. This increase is important inasmuch as a key part of the company's growth strategy is to increase engagement among existing customers with a goal of motivating users to engage its platform 2-3 times a week versus 2-3 a month.



Income Statement

PayPal Inc Operating Model	Dec-15	Dec-16	Dec-17	Mar-18	Jun-18	Sep-18	Dec-18	Dec-18	Mar-19	Jun-19	Sep-19	Dec-19	Dec-19	Mar-20	Jun-20	Sep-20	Dec-20	Dec-20	Dec-21	Dec-22
\$ millions	2015A	2016A	2017A	1Q18A	2Q18A	3Q18A	4Q18A	2018A	1Q19E	2Q19E	3Q19E	4Q19E	2019E	1Q20E	2Q20E	3Q20E	4Q20E	2020E	2021E	2022E
Net revenues	9,248	10,842	13,094	3,685	3,857	3,683	4,226	15,451	4,132	4,366	4.476	5.094	18,067	4,929	5,209	5,340	6,026	21,504	25,070	28,853
Net revenues	5,240	10,042	13,054	3,063	3,637	3,003	4,220	13,431	4,132	4,300	4,470	3,034	10,007	4,525	3,203	3,340	0,020	21,304	23,070	20,033
Transaction expense	2,610	3,346	4,419	1,275	1,362	1,366	1,578	5,581	1,565	1,645	1,667	1,909	6,786	1,882	1,978	2,004	2,277	8,141	9,455	10,999
Transaction and loan losses	809	1,088	1,011	305	334	295	340	1,274	334	352	362	411	1,460	401	423	435	490	1,748	2,062	2,402
Customer support and operations	1,110	1,267	1,364	351	357	367	407	1,482	426	436	448	444	1,754	483	492	506	493	1,974	2,180	2,367
Sales and marketing	937	969	1,128	285	313	326	389	1,313	320	352	394	390	1,456	375	416	466	457	1,715	1,974	2,243
Product development	792	834	953	258	255	269	289	1,071	289	286	325	322	1,222	339	338	383	376	1,436	1,637	1,841
General and administrative	873	1,028	1,155	339	368	354	390	1,451	380	414	428	424	1,647	441	484	500	490	1,915	2,170	2,440
Depreciation amortization	608	724	805	185	180	188	223	776	207	218	224	255	903	242	255	256	289	1,042	1,171	1,300
Restructuring and other charges	48	0	132	153	116	28	12	309	0	0	0	0	0	0	0	0	0	0	0	0
Total operating expenses	7,787	9,256	10,967	3,151	3,285	3,193	3,628	13,257	3,521	3,704	3,847	4,156	15,228	4,162	4,386	4,550	4,872	17,971	20,650	23,593
Operating income	1,461	1,586	2,127	534	572	490	598	2,194	610	662	629	938	2,839	766	823	789	1,154	3,533	4,420	5,260
Other income (expense)	27	45	73	14	37	43	88	182	0	0	0	0	0	0	0	0	0	0	0	0
Income before income taxes	1,488	1,631	2,200	548	609	533	686	2,376	610	662	629	938	2,839	766	823	789	1,154	3,533	4,420	5,260
Income tax expense	260	230	405	37	83	97	102	319	91	98	93	139	422	114	122	117	172	525	657	782
Net income	1,228	1,401	1,795	511	526	436	584	2,057	520	564	535	798	2,417	652	701	672	983	3,008	3,763	4,478
Diluted EPS - GAAP	\$1.00	\$1.15	\$1.47	\$0.42	\$0.44	\$0.36	\$0.49	\$1.71	\$0.43	\$0.47	\$0.45	\$0.67	\$2.02	\$0.55	\$0.59	\$0.57	\$0.83	\$2.54	\$3.19	\$3.81
Diluted EPS - Adjusted	\$1.29	\$1.50	\$1.90	\$0.57	\$0.58	\$0.58	\$0.69	\$2.42	\$0.68	\$0.68	\$0.66	\$0.89	\$2.91	\$0.79	\$0.83	\$0.81	\$1.08	\$3.51	\$4.28	\$5.02
			_		-	•	-		-	•	•	-			-	-	-			
Shares outstanding - Basic	1,222	1,210	1,203	1,192	1,187	1,181	1,177	1,184	1,180	1,178	1,176	1,172	1,177	1,169	1,166	1,163	1,159	1,164	1,158	1,156
Shares outstanding - Diluted	1,229	1,218	1,221	1,217	1,202	1,199	1,196	1,203	1,200	1,197	1,195	1,192	1,196	1,189	1,186	1,183	1,178	1,184	1,178	1,177
GAAP operating income	1,461	1,586	2,127	534	572	490	598	2,194	610	662	629	938	2,839	766	823	789	1,154	3,533	4,420	5,260
Stock based compensation expense and related exployer payroll taxes	356	455	761	241	223	219	237	920	285	266	275	296	1,122	320	317	328	350	1,315	1,534	1,765
Amortization of acquired intangible assets	85	133	129	29	25	33	59	146	55	52	49	47	202	44	42	40	38	165	134	109
Restructuring	48	0	40	25	0	28	12	65	0	0	0	0	0	0	0	0	0	0	0	0
Other	25	0	-302	0	0	17	7	24	40	0	0	0	40	0	0	0	0	0	0	0
Total non-GAAP operating income adjustments	514	588	628	295	248	297	315	1,155	380	317	324	343	1,364	365	359	368	388	1,480	1,668	1,875
Non-GAAP operating income	1,975	2,174	2,755	829	820	787	913	3,349	990	980	953	1,281	4,203	1,131	1,182	1,158	1,542	5,013	6,088	7,135
Non-GAAP operating margin	21.4%	20.1%	21.0%	22.5%	21.3%	21.4%	21.6%	21.7%	24.0%	22.4%	21.3%	25.1%	23.3%	23.0%	22.7%	21.7%	25.6%	23.3%	24.3%	24.7%
Stock based compensation as a % of revenue	3.8%	4.2%	5.8%	6.5%	5.8%	5.9%	5.6%	6.0%	6.9%	6.1%	6.1%	5.8%	6.2%	6.5%	6.1%	6.1%	5.8%	6.1%	6.1%	6.1%
GAAP income before income taxes	1.488	1.631	2.200	548	609	533	686	2.376	610	662	629	938	2.839	766	823	789	1,154	3.533	4.420	5,260
GAAP income tax expense	260	230	405	37	83	97	102	319	91	98	93	139	422	114	122	117	172	525	657	782
GAAP net income	1,228	1,401	1,795	511	526	436	584	2.057	520	564	535	798	2,417	652	701	672	983	3,008	3,763	4,478
Non-GAAP operating income adjustments	514	588	628	295	248	297	315	1,155	380	317	324	343	1,364	365	359	368	388	1,480	1,668	1,875
Other	-12	0	224	3	32	14	-6	43	0	0	0	0	0	0	0	0	0	0	0	0
Tax effect on non-GAAP adjustment	-142	-164	-329	-117	-103	-53	-69	-342	-79	-70	-70	-81	-300	-80	-81	-82	-93	-336	-389	-444
Non-GAAP net income	1,588	1,825	2,318	692	703	694	824	2,913	820	811	789	1,060	3,481	937	979	959	1,277	4,152	5,042	5,909
GAAP tax rate	17.5%	14.1%	18.4%	6.8%	13.6%	18.2%	14.9%	13.4%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%	14.9%
Non-GAAP effective tax rate	20.2%	17.8%	18.2%	18.2%	20.9%	17.8%	17.2%	18.5%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%	17.2%
Diluted EPS - Adjusted	\$1.29	\$1.50	\$1.90	\$0.57	\$0.58	\$0.58	\$0.69	\$2.42	\$0.68	\$0.68	\$0.66	\$0.89	\$2.91	\$0.79	\$0.83	\$0.81	\$1.08	\$3.51	\$4.28	\$5.02
Shares outstanding - Diluted	1,229	1,218	1,221	1,217	1,202	1,199	1,196	1,203	1,200	1,197	1,195	1,192	1,196	1,189	1,186	1,183	1,178	1,184	1,178	1,177
Net income	1 220	1.401	1 705	E11	F26	426	E94	2.057	F20	EGA	ESE	798	2.417	652	701	672	083	2 000	2.762	4 479
Net income	1,228	1,401	1,795 405	511 37	526 83	436 97	584	2,057	520	564	535 93		2,417	652	701	672	983	3,008	3,763 657	4,478
Income tax expense Depreciation and amortization	260 608	230 724	805 805	185	180	188	102 223	319 776	91 207	98 218	93 224	139 255	422 903	114 242	122 255	117 256	172 289	525 1.042	1,171	782 1,300
Depreciation and amortization Stock based compensation	346	438	733	205	223	188 219	223	884	285	218 266	275	255 296	1,122	320	317	328	289 350	1,042	1,1/1	1,300
Stock based compensation Other	0	438	-322	205	0	219	0	0	285	0	0	296	0	0	0	0	0	0	0	0
Adjusted EBITDA	2,442	2.793	3,416	938	1.012	940	1,146	4.036	1,102	1,146	1.128	1,488	4.864	1,328	1,395	1,374	1.793	5.891	7,125	8,326
Adjusted EBITDA Adjusted EBITDA margin	26.4%	25.8%	26.1%	25.5%	26.2%	25.5%	27.1%	26.1%	26.7%	26.3%	25.2%	29.2%	26.9%	26.9%	26.8%	25.7%	29.8%	27.4%	28.4%	28.9%
najastea corrori margin	20.470	25.5%	20.170	25.570	20.270	25.570	27.170	20.170	20.770	20.570	25.270	23.270	20.570	20.576	20.076	25.770	23.070	27.470	20.470	20.576

Source: BTIG Estimates and Company Documents



BTIG Covered Companies Mentioned in this Report

PAYPAL HOLDINGS, INC. (PYPL, Buy, \$95.00 PT; Current Price: \$92.42; Analyst: Mark.Palmer)



Appendix: Analyst Certification and Other Important Disclosures

Analyst Certification

I, Mark Palmer, hereby certify that the views about the companies and securities discussed in this report are accurately expressed and that I have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report.

I, Giuliano Bologna, hereby certify that the views about the companies and securities discussed in this report are accurately expressed and that I have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report.

Regulatory Disclosures

Ratings Definitions

BTIG LLC's ("BTIG") ratings, effective June 12, 2017, are defined as follows:

BUY – A security which is expected to produce a positive total return of 15% or greater over the 12 months following the recommendation. The BUY rating may be maintained as long as it is deemed appropriate, notwithstanding price fluctuations that would cause the target to fall outside of the 15% return.

SELL – A security which is expected to produce a negative total return of 15% or greater over the next 12 months following the recommendation. The SELL rating may be maintained as long as it is deemed appropriate, notwithstanding price fluctuations that would cause the target to fall outside of the 15% return.

NEUTRAL – A security which is not expected to appreciate or depreciate meaningfully over the next 12 months. **NOT RATED** – A security which is not rated or covered by BTIG.

UNDER REVIEW – Effective immediately, coverage of the following securities is Under Review. Ratings, price targets, disclosures, and estimates for the companies listed below are suspended and should no longer be relied upon.

Distribution of Ratings and Investment Banking Clients

BTIG must disclose in each research report the percentage of all securities rated by the member to which the member would assign a "buy", "neutral" or "sell" rating. The said ratings are updated on a quarterly basis. BTIG must also disclose the percentage of subject companies within each of these three categories for whom the member has provided investment banking services within the previous twelve months. Stocks under coverage as of the end of the most recent calendar quarter (December 31, 2018): 331

Distribution of BTIG's Research Recommendations (as of December 31, 2018):

BUY: 59.8%; NEUTRAL: 38.1%; SELL: 2.1%

Distribution of BTIG's Investment Banking Services (as of December 31, 2018):

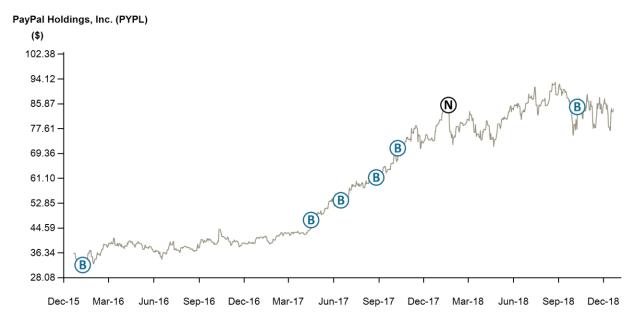
BUY: 27.3%; NEUTRAL: 11.1%; SELL: 0.0%

For purposes of FINRA ratings distribution rules, BTIG's stock ratings of Buy, Neutral and Sell fall into Buy, Hold and Sell categories, respectively.

Company Valuation and Risk Disclosures PayPal Holdings, Inc. (PYPL, Buy, \$95.00 PT)

Valuation: Our \$95 price target for PayPal is based on 17x the company's FY20E adjusted EBITDA of \$5,891mm. **Risks:** The primary risks to PayPal include: competition from mobile wallet offerings and others, pressure on take rates, security risks, regulatory risks, regulatory risks and reliance on third-party banks for credit-product issuance.





Note: Closing Price and Target Price have been adjusted for corporate actions.

Date	Closing Price (\$)	Target Price (\$)	Analyst	Rating
20-Jul-15	40.47	48	Mark Palmer	Buy
27-Apr-17	47.15	53	Mark Palmer	Buy
26-Jun-17	53.74	63	Mark Palmer	Buy
06-Sep-17	61.24	70	Mark Palmer	Buy
20-Oct-17	70.97	81	Mark Palmer	Buy
31-Jan-18	85.32	N/A	Mark Palmer	Neutral
19-Oct-18	84.78	95	Mark Palmer	Buy

Other Disclosures

Additional Information Available Upon Request

General Disclosures

Research reports produced by BTIG LLC ("BTIG") are published for and intended to be distributed solely to BTIG institutional and corporate clients. Recipients of BTIG reports will not be considered clients of BTIG solely because they may have received such BTIG report.

The research analyst(s) responsible for the preparation of this report receives compensation based upon a variety of factors, including the quality and accuracy of research, internal/client feedback, and overall Firm revenues.

BTIG reports are based on public information and BTIG considers the same to be reliable, comprehensive information, but makes no representation or warranty that the reports are accurate or complete. BTIG opinions and information provided in this report are as of the date of the report and may change without notice. An issuer may be classified as "Under Review" or "Research Restricted". In these cases, investors should consider any previous investment recommendation and/or rating to a subject company/issuer to no longer be current and should not be relied upon nor considered a solicitation.

This research report is not an offer to buy or sell or solicitation of an offer to buy or sell any security in any jurisdiction where such an offer or solicitation would be illegal. This research report was not drafted specifically for any particular individual or entity and is not a personal recommendation to participate in any particular trading strategy or transaction. Any recipient of this research report should obtain independent advice specific to their personal



circumstances before undertaking any investment activity and must make their own independent evaluation of any securities or financial instruments.

Facts, views or opinions presented in this report have not been reviewed by, and may not reflect information known to, employees or other professionals in the "BTIG Group" (BTIG Group includes, but is not limited to, BTIG and its parents, subsidiaries and/or affiliates). BTIG Group employees, including Sales Representatives and Traders, may provide oral or written commentary or advice that may be inconsistent with the opinions and/or views expressed in this research report. BTIG Group employees and/or its affiliates not involved in the preparation of this research report may have investments in securities or derivatives of securities of companies mentioned in this report that are inconsistent with the views discussed in this report.

Investors in securities products bear certain risks in conjunction with those investments. The value of, and income from, any investments may vary because of changes in interest rates or foreign exchange rates, securities prices or market indexes, operational or financial conditions of companies or other factors within or beyond the companies control. Recipient of the research reports should be aware that investments in securities may pose significant risks due to the inherent uncertainty associated with relying on forecasts of various factors that can affect the earnings, cash flow and overall valuation of a company. Any investment in securities should be undertaken only upon consideration of issues relating to the recipient's overall investment portfolio and objectives (such as diversification by asset class, industry or company) as well as time horizon and liquidity needs. Further, past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. There may be time limitations on the exercise of options or other rights in any securities transactions.

Investing in foreign markets and securities, including ADRs, is subject to additional risks such as currency fluctuation, limited information, political instability, economic risk, and the potential for illiquid markets. Investing in emerging markets may accentuate these risks. Non-U.S. reporting issuers of foreign securities, however, may not make regular or complete public disclosure relating to their financial condition or the securities that they issue.

The trademarks and service marks contained herein are the property of their respective owners. Third-party data providers make no warranties or representations of any kind relating to the accuracy, completeness, or timeliness of the data they provide and shall not have liability of any damages of any kind relating to such data. The report or any portion hereof may not be reprinted, sold or redistributed without the written consent of BTIG. This report is intended only for use by the recipient. The recipient acknowledges that all research and analysis in this report are the property of BTIG and agrees to limit the use of all publications received from BTIG within his, or her or its, own company or organization. No rights are given for passing on, transmitting, re transmitting or reselling the information provided.

Jurisdiction and Dissemination

BTIG is a U.S. broker-dealer and member of FINRA and SIPC.

BTIG Australia Limited ACN 128 554 601, member of ASIC and ASX; BTIG Hong Kong Limited, an Exchange Participant of SEHK and licensed and regulated by the SFC; BTIG Ltd, member of the LSE, authorized and regulated by the FSA; and BTIG Singapore Pte Ltd, registered and licensed with MAS; are all separate but affiliated entities of BTIG. Unless governing law permits otherwise, you must contact a BTIG entity in your home jurisdiction for further information, or if you want to use our services in effecting a transaction.

Issued and approved for distribution in the UK and EEA by BTIG Ltd. to eligible counterparties and professional clients only. Issued and distributed in Australia to "wholesale clients" only by BTIG Australia Limited. In Singapore and Hong Kong, further information may be obtained from BTIG Singapore Pte Ltd and BTIG Hong Kong Limited, respectively.