

**ARK Investment Management LLC  
Client Trades – Preceding One Year Period**

The following is a list of all purchases and sales made by ARK Investment Management LLC ("ARK") for client accounts during the past year that could be considered by the Securities and Exchange Commission as recommendations. It should not be assumed that recommendations made in the future will be profitable or will equal the performance of the securities in this list.

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 7/20/2017  | Buy       | HDP    | \$12.55  | \$13.10              | \$12.09    | \$12.52       | \$12.52                       |
| 7/20/2017  | Sell      | IBM    | \$147.75 | \$148.83             | \$147.03   | \$147.66      | \$147.66                      |
| 7/20/2017  | Buy       | HDP    | \$12.58  | \$13.10              | \$12.09    | \$12.52       | \$12.52                       |
| 7/20/2017  | Sell      | MCRB   | \$13.53  | \$14.29              | \$12.50    | \$13.60       | \$13.60                       |
| 7/20/2017  | Sell      | FMI    | \$37.80  | \$38.30              | \$37.45    | \$38.00       | \$38.00                       |
| 7/20/2017  | Buy       | INO    | \$6.07   | \$6.28               | \$6.00     | \$6.01        | \$6.01                        |
| 7/20/2017  | Sell      | IONS   | \$55.59  | \$56.46              | \$54.50    | \$55.86       | \$55.86                       |
| 7/20/2017  | Sell      | KITE   | \$109.75 | \$110.08             | \$105.13   | \$109.89      | \$109.89                      |
| 7/20/2017  | Sell      | MCRB   | \$13.45  | \$14.29              | \$12.50    | \$13.60       | \$13.60                       |
| 7/18/2017  | Sell      | BIDU   | \$189.51 | \$186.69             | \$190.10   | \$189.51      | \$191.32                      |
| 7/18/2017  | Buy       | NTLA   | \$15.54  | \$15.19              | \$16.70    | \$15.57       | \$16.52                       |
| 7/18/2017  | Sell      | KITE   | \$102.32 | \$101.65             | \$104.28   | \$103.32      | \$109.89                      |
| 7/18/2017  | Buy       | NTLA   | \$15.44  | \$15.19              | \$16.70    | \$15.57       | \$16.52                       |
| 7/17/2017  | Buy       | GBTC   | \$357.72 | \$252.00             | \$359.75   | \$346.00      | \$390.05                      |
| 7/17/2017  | Sell      | PRLB   | \$70.84  | \$69.00              | \$71.30    | \$71.05       | \$70.60                       |
| 7/17/2017  | Buy       | GBTC   | \$356.45 | \$252.00             | \$359.75   | \$346.00      | \$390.05                      |
| 7/17/2017  | Sell      | SFTBY  | \$41.05  | \$40.67              | \$41.23    | \$40.69       | \$41.45                       |
| 7/17/2017  | Buy       | GBTC   | \$357.74 | \$252.00             | \$359.75   | \$346.00      | \$390.05                      |
| 7/17/2017  | Sell      | KITE   | \$102.65 | \$101.36             | \$104.91   | \$102.26      | \$109.89                      |
| 7/17/2017  | Sell      | PRLB   | \$71.00  | \$69.00              | \$71.30    | \$71.05       | \$70.60                       |
| 7/14/2017  | Buy       | JUNO   | \$27.25  | \$26.87              | \$27.75    | \$27.26       | \$29.04                       |
| 7/14/2017  | Sell      | KITE   | \$103.42 | \$102.69             | \$104.75   | \$103.09      | \$109.89                      |
| 7/14/2017  | Buy       | JUNO   | \$27.25  | \$26.87              | \$27.75    | \$27.26       | \$29.04                       |
| 7/14/2017  | Sell      | KITE   | \$103.25 | \$102.69             | \$104.75   | \$103.09      | \$109.89                      |
| 7/13/2017  | Buy       | CLLS   | \$25.44  | \$25.12              | \$25.73    | \$25.71       | \$26.79                       |
| 7/13/2017  | Sell      | FMI    | \$39.10  | \$38.75              | \$40.00    | \$39.85       | \$38.00                       |
| 7/13/2017  | Sell      | IONS   | \$50.64  | \$50.50              | \$52.50    | \$51.72       | \$55.86                       |
| 7/11/2017  | Sell      | AMZN   | \$993.17 | \$983.72             | \$995.28   | \$993.72      | \$1,028.70                    |
| 7/11/2017  | Buy       | GBTC   | \$383.23 | \$378.00             | \$387.00   | \$381.00      | \$390.05                      |
| 7/11/2017  | Sell      | AMZN   | \$993.27 | \$983.72             | \$995.28   | \$993.72      | \$1,028.70                    |
| 7/11/2017  | Buy       | GBTC   | \$382.05 | \$378.00             | \$387.00   | \$381.00      | \$390.05                      |
| 7/11/2017  | Buy       | GBTC   | \$385.00 | \$378.00             | \$387.00   | \$381.00      | \$390.05                      |
| 7/10/2017  | Sell      | AMZN   | \$997.83 | \$983.50             | \$999.44   | \$996.47      | \$1,028.70                    |
| 7/10/2017  | Buy       | GBTC   | \$385.00 | \$380.25             | \$395.50   | \$385.00      | \$390.05                      |
| 7/6/2017   | Sell      | GE     | \$26.30  | \$26.10              | \$27.05    | \$26.31       | \$26.69                       |
| 7/6/2017   | Buy       | TSLA   | \$316.30 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Buy       | TSLA   | \$308.00 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Sell      | BABA   | \$142.47 | \$141.83             | \$143.62   | \$142.20      | \$152.11                      |
| 7/6/2017   | Sell      | MDSO   | \$77.70  | \$77.36              | \$78.30    | \$77.85       | \$75.78                       |
| 7/6/2017   | Buy       | TSLA   | \$316.50 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Buy       | TSLA   | \$307.80 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Sell      | TWOU   | \$45.21  | \$44.69              | \$46.28    | \$44.94       | \$50.00                       |
| 7/6/2017   | Sell      | BABA   | \$142.47 | \$141.83             | \$143.62   | \$142.20      | \$152.11                      |
| 7/6/2017   | Sell      | FMI    | \$37.10  | \$36.85              | \$39.30    | \$37.60       | \$38.00                       |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
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| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 7/6/2017   | Sell      | JUNO   | \$29.85  | \$29.36              | \$31.11    | \$29.61       | \$29.04                       |
| 7/6/2017   | Sell      | KITE   | \$103.62 | \$102.78             | \$106.32   | \$103.56      | \$109.89                      |
| 7/6/2017   | Sell      | MDSO   | \$77.66  | \$77.36              | \$78.30    | \$77.85       | \$75.78                       |
| 7/6/2017   | Sell      | NTLA   | \$16.87  | \$16.73              | \$17.58    | \$16.93       | \$16.52                       |
| 7/6/2017   | Sell      | PRLB   | \$67.56  | \$67.20              | \$68.10    | \$67.70       | \$70.60                       |
| 7/6/2017   | Buy       | TSLA   | \$308.00 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Buy       | TSLA   | \$317.66 | \$306.30             | \$320.79   | \$308.83      | \$329.92                      |
| 7/6/2017   | Sell      | TWOU   | \$45.44  | \$44.69              | \$46.28    | \$44.94       | \$50.00                       |
| 7/5/2017   | Buy       | AAPL   | \$143.73 | \$142.72             | \$144.79   | \$144.09      | \$150.34                      |
| 7/5/2017   | Sell      | AVAV   | \$39.49  | \$38.96              | \$40.10    | \$39.51       | \$38.11                       |
| 7/5/2017   | Buy       | GBTC   | \$396.47 | \$395.81             | \$410.00   | \$407.35      | \$390.05                      |
| 7/5/2017   | Sell      | PRLB   | \$67.63  | \$67.10              | \$68.05    | \$67.85       | \$70.60                       |
| 7/5/2017   | Sell      | TWOU   | \$46.53  | \$46.30              | \$47.30    | \$46.56       | \$50.00                       |
| 7/5/2017   | Buy       | AAPL   | \$143.51 | \$142.72             | \$144.79   | \$144.09      | \$150.34                      |
| 7/5/2017   | Sell      | BABA   | \$142.45 | \$140.33             | \$145.00   | \$144.87      | \$152.11                      |
| 7/5/2017   | Sell      | CTRP   | \$53.93  | \$53.12              | \$54.25    | \$54.20       | \$57.36                       |
| 7/5/2017   | Sell      | SQ     | \$23.98  | \$23.05              | \$24.16    | \$23.76       | \$26.39                       |
| 7/5/2017   | Buy       | AAPL   | \$144.59 | \$142.72             | \$144.79   | \$144.09      | \$150.34                      |
| 7/5/2017   | Sell      | ATHN   | \$140.12 | \$139.38             | \$141.93   | \$140.24      | \$143.80                      |
| 7/5/2017   | Sell      | BLUE   | \$104.86 | \$104.05             | \$107.75   | \$105.15      | \$95.80                       |
| 7/5/2017   | Buy       | GBTC   | \$408.27 | \$395.81             | \$410.00   | \$407.35      | \$390.05                      |
| 7/5/2017   | Sell      | JUNO   | \$31.33  | \$29.09              | \$31.53    | \$31.24       | \$29.04                       |
| 7/5/2017   | Sell      | KITE   | \$105.41 | \$103.37             | \$106.80   | \$106.50      | \$109.89                      |
| 6/28/2017  | Buy       | GBTC   | \$416.85 | \$403.55             | \$420.00   | \$412.00      | \$390.05                      |
| 6/28/2017  | Sell      | HDP    | \$13.48  | \$13.17              | \$13.62    | \$13.50       | \$12.52                       |
| 6/28/2017  | Buy       | INTU   | \$135.48 | \$134.49             | \$137.62   | \$135.37      | \$135.35                      |
| 6/28/2017  | Sell      | MLNX   | \$43.25  | \$42.90              | \$43.90    | \$43.85       | \$44.60                       |
| 6/28/2017  | Sell      | TWOU   | \$47.49  | \$46.95              | \$48.01    | \$47.42       | \$50.00                       |
| 6/28/2017  | Buy       | GBTC   | \$418.67 | \$403.55             | \$420.00   | \$412.00      | \$390.05                      |
| 6/28/2017  | Buy       | INTU   | \$134.79 | \$134.49             | \$137.62   | \$135.37      | \$135.35                      |
| 6/28/2017  | Sell      | QCOM   | \$55.71  | \$55.18              | \$56.32    | \$56.16       | \$53.97                       |
| 6/23/2017  | Buy       | BLUE   | \$106.87 | \$104.90             | \$113.30   | \$112.00      | \$95.80                       |
| 6/23/2017  | Sell      | KITE   | \$97.12  | \$93.30              | \$101.47   | \$100.66      | \$109.89                      |
| 6/23/2017  | Sell      | AGIO   | \$58.00  | \$56.54              | \$59.58    | \$59.18       | \$57.23                       |
| 6/23/2017  | Sell      | ATHN   | \$145.70 | \$144.57             | \$148.69   | \$145.54      | \$143.80                      |
| 6/23/2017  | Buy       | BLUE   | \$106.81 | \$104.90             | \$113.30   | \$112.00      | \$95.80                       |
| 6/21/2017  | Sell      | ATHN   | \$145.73 | \$144.90             | \$146.90   | \$146.23      | \$143.80                      |
| 6/21/2017  | Sell      | BLUE   | \$116.80 | \$113.65             | \$120.35   | \$120.30      | \$95.80                       |
| 6/21/2017  | Sell      | FMI    | \$41.23  | \$40.00              | \$41.50    | \$41.35       | \$38.00                       |
| 6/21/2017  | Buy       | JNCE   | \$16.38  | \$15.57              | \$16.60    | \$15.74       | \$13.40                       |
| 6/20/2017  | Buy       | CSOD   | \$35.28  | \$35.00              | \$36.10    | \$35.31       | \$40.76                       |
| 6/20/2017  | Sell      | GE     | \$28.24  | \$28.08              | \$28.72    | \$28.13       | \$26.69                       |
| 6/20/2017  | Buy       | SFTBY  | \$41.79  | \$41.44              | \$42.13    | \$41.91       | \$41.45                       |
| 6/20/2017  | Buy       | TCEHY  | \$35.88  | \$35.80              | \$36.08    | \$35.90       | \$38.16                       |
| 6/20/2017  | Sell      | TRMB   | \$36.68  | \$36.45              | \$37.37    | \$36.51       | \$37.55                       |
| 6/20/2017  | Sell      | TSLA   | \$370.56 | \$369.73             | \$378.88   | \$372.24      | \$329.92                      |
| 6/20/2017  | Sell      | ATHN   | \$145.71 | \$144.37             | \$146.32   | \$144.58      | \$143.80                      |
| 6/20/2017  | Buy       | NFLX   | \$152.44 | \$151.40             | \$154.50   | \$152.05      | \$183.60                      |
| 6/20/2017  | Buy       | TWTR   | \$16.93  | \$16.84              | \$17.15    | \$16.91       | \$20.53                       |
| 6/20/2017  | Sell      | ATHN   | \$145.46 | \$144.37             | \$146.32   | \$144.58      | \$143.80                      |
| 6/20/2017  | Sell      | BLUE   | \$117.90 | \$112.65             | \$120.95   | \$113.00      | \$95.80                       |
| 6/20/2017  | Buy       | CGEN   | \$3.85   | \$3.55               | \$3.85     | \$3.60        | \$3.45                        |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 6/20/2017  | Buy       | JUNO   | \$24.61  | \$24.13              | \$25.23    | \$24.66       | \$29.04                    |
| 6/20/2017  | Sell      | KITE   | \$93.06  | \$89.11              | \$95.44    | \$91.21       | \$109.89                   |
| 6/20/2017  | Buy       | ONVO   | \$2.67   | \$2.62               | \$2.74     | \$2.66        | \$2.32                     |
| 6/20/2017  | Sell      | PYPL   | \$52.55  | \$52.43              | \$53.23    | \$52.52       | \$59.09                    |
| 6/20/2017  | Buy       | SFTBY  | \$41.50  | \$41.44              | \$42.13    | \$41.91       | \$41.45                    |
| 6/20/2017  | Buy       | TWTR   | \$16.90  | \$16.84              | \$17.15    | \$16.91       | \$20.53                    |
| 6/20/2017  | Sell      | ATHN   | \$145.75 | \$144.37             | \$146.32   | \$144.58      | \$143.80                   |
| 6/20/2017  | Buy       | JUNO   | \$24.89  | \$24.13              | \$25.23    | \$24.66       | \$29.04                    |
| 6/20/2017  | Buy       | NTLA   | \$14.06  | \$13.53              | \$14.25    | \$13.65       | \$16.52                    |
| 6/16/2017  | Buy       | AMZN   | \$983.76 | \$982.00             | \$999.75   | \$987.71      | \$1,028.70                 |
| 6/16/2017  | Sell      | TSLA   | \$374.27 | \$370.10             | \$378.01   | \$371.40      | \$329.92                   |
| 6/16/2017  | Buy       | AMZN   | \$979.02 | \$982.00             | \$999.75   | \$987.71      | \$1,028.70                 |
| 6/16/2017  | Sell      | ATHN   | \$146.06 | \$141.01             | \$146.75   | \$145.36      | \$143.80                   |
| 6/16/2017  | Sell      | TSLA   | \$374.12 | \$370.10             | \$378.01   | \$371.40      | \$329.92                   |
| 6/16/2017  | Buy       | AMZN   | \$990.97 | \$982.00             | \$999.75   | \$987.71      | \$1,028.70                 |
| 6/16/2017  | Sell      | ATHN   | \$145.95 | \$141.01             | \$146.75   | \$145.36      | \$143.80                   |
| 6/16/2017  | Sell      | TSLA   | \$374.15 | \$370.10             | \$378.01   | \$371.40      | \$329.92                   |
| 6/12/2017  | Buy       | BIDU   | \$180.39 | \$177.31             | \$182.15   | \$180.06      | \$191.32                   |
| 6/12/2017  | Buy       | GM     | \$34.63  | \$34.22              | \$34.82    | \$34.68       | \$36.41                    |
| 6/12/2017  | Buy       | GOOG   | \$936.18 | \$915.23             | \$949.36   | \$942.90      | \$968.15                   |
| 6/12/2017  | Sell      | MTLS   | \$12.30  | \$12.02              | \$12.86    | \$12.43       | \$13.33                    |
| 6/12/2017  | Sell      | NVDA   | \$149.55 | \$142.11             | \$151.70   | \$149.97      | \$167.50                   |
| 6/12/2017  | Buy       | SFTBY  | \$41.97  | \$41.55              | \$42.13    | \$41.88       | \$41.45                    |
| 6/12/2017  | Buy       | TER    | \$33.49  | \$32.40              | \$33.94    | \$33.39       | \$35.33                    |
| 6/12/2017  | Sell      | TSLA   | \$356.87 | \$350.62             | \$364.50   | \$359.01      | \$329.92                   |
| 6/12/2017  | Sell      | ATHN   | \$140.32 | \$137.58             | \$141.00   | \$139.94      | \$143.80                   |
| 6/12/2017  | Buy       | CRM    | \$86.44  | \$83.55              | \$86.84    | \$86.18       | \$90.54                    |
| 6/12/2017  | Buy       | GBTC   | \$391.42 | \$377.50             | \$449.50   | \$386.81      | \$390.05                   |
| 6/12/2017  | Sell      | HDP    | \$12.21  | \$11.68              | \$12.28    | \$12.08       | \$12.52                    |
| 6/12/2017  | Sell      | NTDOY  | \$38.53  | \$38.04              | \$38.63    | \$38.63       | \$41.53                    |
| 6/12/2017  | Buy       | SFTBY  | \$42.06  | \$41.55              | \$42.13    | \$41.88       | \$41.45                    |
| 6/12/2017  | Buy       | SPLK   | \$57.54  | \$55.21              | \$57.81    | \$57.81       | \$61.56                    |
| 6/12/2017  | Buy       | TCEHY  | \$34.49  | \$33.65              | \$34.70    | \$34.53       | \$38.16                    |
| 6/12/2017  | Sell      | ATHN   | \$139.61 | \$137.58             | \$141.00   | \$139.94      | \$143.80                   |
| 6/12/2017  | Buy       | BIDU   | \$180.37 | \$177.31             | \$182.15   | \$180.06      | \$191.32                   |
| 6/12/2017  | Buy       | CRM    | \$86.25  | \$83.55              | \$86.84    | \$86.18       | \$90.54                    |
| 6/12/2017  | Buy       | GBTC   | \$397.28 | \$377.50             | \$449.50   | \$386.81      | \$390.05                   |
| 6/12/2017  | Sell      | HDP    | \$11.94  | \$11.68              | \$12.28    | \$12.08       | \$12.52                    |
| 6/12/2017  | Buy       | MCRB   | \$10.45  | \$9.89               | \$10.60    | \$10.49       | \$13.60                    |
| 6/12/2017  | Buy       | NSTG   | \$14.98  | \$14.72              | \$15.73    | \$15.00       | \$15.95                    |
| 6/12/2017  | Sell      | NTDOY  | \$38.49  | \$38.04              | \$38.63    | \$38.63       | \$41.53                    |
| 6/12/2017  | Sell      | PYPL   | \$52.09  | \$51.43              | \$52.90    | \$52.16       | \$59.09                    |
| 6/12/2017  | Buy       | SFTBY  | \$41.90  | \$41.55              | \$42.13    | \$41.88       | \$41.45                    |
| 6/12/2017  | Buy       | SPLK   | \$57.07  | \$55.21              | \$57.81    | \$57.81       | \$61.56                    |
| 6/12/2017  | Sell      | SSYS   | \$26.21  | \$25.42              | \$26.69    | \$26.26       | \$23.60                    |
| 6/12/2017  | Buy       | TCEHY  | \$34.46  | \$33.65              | \$34.70    | \$34.53       | \$38.16                    |
| 6/12/2017  | Buy       | TER    | \$33.22  | \$32.40              | \$33.94    | \$33.39       | \$35.33                    |
| 6/12/2017  | Sell      | TSLA   | \$357.62 | \$350.62             | \$364.50   | \$359.01      | \$329.92                   |
| 6/12/2017  | Buy       | TWTR   | \$17.07  | \$16.27              | \$17.19    | \$17.04       | \$20.53                    |
| 6/12/2017  | Sell      | ATHN   | \$140.11 | \$137.58             | \$141.00   | \$139.94      | \$143.80                   |
| 6/12/2017  | Buy       | DD     | \$82.26  | \$81.95              | \$83.32    | \$82.14       | \$84.83                    |
| 6/12/2017  | Buy       | MCRB   | \$10.53  | \$9.89               | \$10.60    | \$10.49       | \$13.60                    |

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| 6/12/2017  | Buy       | NSTG   | \$15.04  | \$14.72              | \$15.73    | \$15.00       | \$15.95                    |
| 6/6/2017   | Buy       | CRSP   | \$14.20  | \$14.10              | \$14.71    | \$14.31       | \$16.53                    |
| 6/6/2017   | Sell      | FMI    | \$40.35  | \$40.20              | \$40.95    | \$40.60       | \$38.00                    |
| 6/5/2017   | Buy       | AAPL   | \$153.73 | \$153.46             | \$154.45   | \$153.93      | \$150.34                   |
| 6/5/2017   | Buy       | AAPL   | \$153.85 | \$153.46             | \$154.45   | \$153.93      | \$150.34                   |
| 6/5/2017   | Sell      | GBTC   | \$519.50 | \$510.00             | \$524.00   | \$516.00      | \$390.05                   |
| 6/5/2017   | Sell      | GBTC   | \$510.42 | \$510.00             | \$524.00   | \$516.00      | \$390.05                   |
| 6/5/2017   | Sell      | GBTC   | \$518.11 | \$510.00             | \$524.00   | \$516.00      | \$390.05                   |
| 6/5/2017   | Buy       | JUNO   | \$23.83  | \$23.18              | \$27.18    | \$23.40       | \$29.04                    |
| 6/5/2017   | Sell      | ATHN   | \$139.32 | \$137.97             | \$140.00   | \$138.55      | \$143.80                   |
| 6/5/2017   | Buy       | INCY   | \$124.92 | \$121.23             | \$132.78   | \$124.03      | \$133.79                   |
| 6/5/2017   | Buy       | JUNO   | \$23.83  | \$23.18              | \$27.18    | \$23.40       | \$29.04                    |
| 6/1/2017   | Sell      | FMI    | \$38.60  | \$38.00              | \$38.90    | \$38.75       | \$38.00                    |
| 6/1/2017   | Buy       | NSTG   | \$16.67  | \$16.60              | \$17.41    | \$17.10       | \$15.95                    |
| 6/1/2017   | Sell      | GBTC   | \$505.36 | \$481.00             | \$534.90   | \$511.75      | \$390.05                   |
| 6/1/2017   | Buy       | NSTG   | \$16.69  | \$16.60              | \$17.41    | \$17.10       | \$15.95                    |
| 6/1/2017   | Buy       | SFTBY  | \$40.59  | \$40.20              | \$40.68    | \$40.64       | \$41.45                    |
| 6/1/2017   | Buy       | FB     | \$151.12 | \$150.30             | \$152.29   | \$151.53      | \$164.53                   |
| 6/1/2017   | Sell      | GBTC   | \$496.26 | \$481.00             | \$534.90   | \$511.75      | \$390.05                   |
| 6/1/2017   | Buy       | GOOG   | \$961.79 | \$960.01             | \$971.50   | \$966.95      | \$968.15                   |
| 6/1/2017   | Buy       | SFTBY  | \$40.68  | \$40.20              | \$40.68    | \$40.64       | \$41.45                    |
| 5/31/2017  | Sell      | GBTC   | \$477.72 | \$426.00             | \$496.00   | \$484.05      | \$390.05                   |
| 5/31/2017  | Sell      | GBTC   | \$477.24 | \$426.00             | \$496.00   | \$484.05      | \$390.05                   |
| 5/30/2017  | Sell      | ATHN   | \$134.18 | \$136.28             | \$134.04   | \$135.42      | \$143.80                   |
| 5/30/2017  | Buy       | EDIT   | \$13.42  | \$15.63              | \$13.16    | \$13.75       | \$15.74                    |
| 5/30/2017  | Sell      | KITE   | \$72.34  | \$74.55              | \$71.82    | \$72.38       | \$109.89                   |
| 5/30/2017  | Buy       | NTLA   | \$11.41  | \$13.27              | \$11.29    | \$11.38       | \$16.52                    |
| 5/30/2017  | Sell      | TSLA   | \$332.92 | \$336.28             | \$325.76   | \$335.10      | \$329.92                   |
| 5/30/2017  | Sell      | ATHN   | \$135.36 | \$136.28             | \$134.04   | \$135.42      | \$143.80                   |
| 5/30/2017  | Buy       | EDIT   | \$13.73  | \$15.63              | \$13.16    | \$13.75       | \$15.74                    |
| 5/30/2017  | Buy       | NTLA   | \$11.39  | \$13.27              | \$11.29    | \$11.38       | \$16.52                    |
| 5/26/2017  | Buy       | SPLK   | \$62.20  | \$61.60              | \$63.90    | \$62.41       | \$61.56                    |
| 5/26/2017  | Sell      | TSLA   | \$323.79 | \$316.31             | \$325.49   | \$325.14      | \$329.92                   |
| 5/26/2017  | Buy       | SPLK   | \$62.21  | \$61.60              | \$63.90    | \$62.41       | \$61.56                    |
| 5/26/2017  | Sell      | ATHN   | \$133.88 | \$132.60             | \$134.59   | \$134.09      | \$143.80                   |
| 5/26/2017  | Sell      | FMI    | \$39.26  | \$38.08              | \$39.85    | \$38.10       | \$38.00                    |
| 5/26/2017  | Sell      | HDP    | \$13.65  | \$13.26              | \$13.81    | \$13.69       | \$12.52                    |
| 5/26/2017  | Buy       | JUNO   | \$24.02  | \$23.18              | \$25.45    | \$23.30       | \$29.04                    |
| 5/26/2017  | Buy       | MCRB   | \$9.50   | \$9.22               | \$9.68     | \$9.38        | \$13.60                    |
| 5/26/2017  | Sell      | MTLS   | \$12.79  | \$12.66              | \$13.05    | \$13.00       | \$13.33                    |
| 5/26/2017  | Sell      | PRLB   | \$63.90  | \$63.30              | \$64.25    | \$64.00       | \$70.60                    |
| 5/26/2017  | Buy       | SPLK   | \$62.35  | \$61.60              | \$63.90    | \$62.41       | \$61.56                    |
| 5/26/2017  | Sell      | TSLA   | \$322.36 | \$316.31             | \$325.49   | \$325.14      | \$329.92                   |
| 5/26/2017  | Sell      | ATHN   | \$133.67 | \$132.60             | \$134.59   | \$134.09      | \$143.80                   |
| 5/26/2017  | Buy       | EDIT   | \$16.08  | \$15.57              | \$16.43    | \$15.62       | \$15.74                    |
| 5/26/2017  | Sell      | FMI    | \$39.25  | \$38.08              | \$39.85    | \$38.10       | \$38.00                    |
| 5/26/2017  | Buy       | JUNO   | \$24.35  | \$23.18              | \$25.45    | \$23.30       | \$29.04                    |
| 5/26/2017  | Buy       | MCRB   | \$9.38   | \$9.22               | \$9.68     | \$9.38        | \$13.60                    |
| 5/25/2017  | BUY       | PWG FP | \$6.98   | \$6.82               | \$7.10     | \$7.00        | \$5.88                     |
| 5/25/2017  | SELL      | GOE FP | \$23.97  | \$23.90              | \$24.08    | \$24.04       | \$22.80                    |
| 5/25/2017  | Sell      | GBTC   | \$470.26 | \$375.00             | \$565.00   | \$477.00      | \$390.05                   |
| 5/25/2017  | Sell      | GBTC   | \$525.00 | \$375.00             | \$565.00   | \$477.00      | \$390.05                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 5/25/2017  | Sell      | GBTC   | \$525.00 | \$375.00             | \$565.00   | \$477.00      | \$390.05                   |
| 5/25/2017  | Buy       | NSTG   | \$18.02  | \$17.73              | \$18.40    | \$18.21       | \$15.95                    |
| 5/23/2017  | Buy       | BYDDY  | \$11.35  | \$11.21              | \$11.36    | \$11.33       | \$13.10                    |
| 5/23/2017  | Sell      | NVDA   | \$136.67 | \$135.71             | \$139.79   | \$137.03      | \$167.50                   |
| 5/23/2017  | Sell      | PRLB   | \$63.01  | \$62.60              | \$64.30    | \$63.50       | \$70.60                    |
| 5/23/2017  | Sell      | ATHN   | \$132.81 | \$131.85             | \$133.74   | \$132.06      | \$143.80                   |
| 5/23/2017  | Buy       | CERS   | \$2.51   | \$2.19               | \$2.83     | \$2.25        | \$2.21                     |
| 5/23/2017  | Buy       | EDIT   | \$17.56  | \$17.04              | \$17.80    | \$17.30       | \$15.74                    |
| 5/23/2017  | Sell      | GBTC   | \$279.10 | \$255.50             | \$295.00   | \$294.00      | \$390.05                   |
| 5/23/2017  | Sell      | SSYS   | \$28.24  | \$27.84              | \$29.00    | \$28.24       | \$23.60                    |
| 5/23/2017  | Sell      | FMI    | \$38.23  | \$38.00              | \$38.85    | \$38.50       | \$38.00                    |
| 5/23/2017  | Buy       | JUNO   | \$24.63  | \$24.05              | \$24.89    | \$24.80       | \$29.04                    |
| 5/23/2017  | Sell      | ATHN   | \$132.93 | \$131.85             | \$133.74   | \$132.06      | \$143.80                   |
| 5/23/2017  | Buy       | CERS   | \$2.26   | \$2.19               | \$2.83     | \$2.25        | \$2.21                     |
| 5/23/2017  | Buy       | EDIT   | \$17.31  | \$17.04              | \$17.80    | \$17.30       | \$15.74                    |
| 5/23/2017  | Sell      | ALNY   | \$74.82  | \$74.07              | \$75.83    | \$74.87       | \$80.51                    |
| 5/23/2017  | Buy       | JUNO   | \$24.87  | \$24.05              | \$24.89    | \$24.80       | \$29.04                    |
| 5/22/2017  | Buy       | GOOG   | \$941.16 | \$935.00             | \$941.88   | \$941.86      | \$968.15                   |
| 5/22/2017  | Sell      | NVDA   | \$137.95 | \$137.33             | \$139.48   | \$138.90      | \$167.50                   |
| 5/22/2017  | Sell      | ATHN   | \$134.05 | \$130.62             | \$134.99   | \$133.72      | \$143.80                   |
| 5/22/2017  | Buy       | BLUE   | \$79.04  | \$77.30              | \$83.40    | \$78.95       | \$95.80                    |
| 5/22/2017  | Buy       | GOOG   | \$940.88 | \$935.00             | \$941.88   | \$941.86      | \$968.15                   |
| 5/22/2017  | Buy       | NVTA   | \$8.85   | \$8.75               | \$9.10     | \$8.85        | \$9.34                     |
| 5/22/2017  | Sell      | SSYS   | \$28.60  | \$27.85              | \$28.73    | \$28.66       | \$23.60                    |
| 5/22/2017  | Sell      | ATHN   | \$133.76 | \$130.62             | \$134.99   | \$133.72      | \$143.80                   |
| 5/22/2017  | Buy       | BLUE   | \$79.10  | \$77.30              | \$83.40    | \$78.95       | \$95.80                    |
| 5/22/2017  | Sell      | FMI    | \$37.61  | \$37.25              | \$38.10    | \$38.10       | \$38.00                    |
| 5/22/2017  | Buy       | NVTA   | \$8.80   | \$8.75               | \$9.10     | \$8.85        | \$9.34                     |
| 5/19/2017  | Sell      | ATHN   | \$130.90 | \$130.01             | \$132.88   | \$130.39      | \$143.80                   |
| 5/19/2017  | Buy       | GOOG   | \$936.84 | \$931.00             | \$937.76   | \$934.01      | \$968.15                   |
| 5/19/2017  | Buy       | XLNX   | \$66.33  | \$65.69              | \$67.09    | \$66.67       | \$65.81                    |
| 5/19/2017  | Buy       | AKAM   | \$47.51  | \$47.05              | \$47.66    | \$47.39       | \$52.36                    |
| 5/19/2017  | Sell      | ATHN   | \$132.00 | \$130.01             | \$132.88   | \$130.39      | \$143.80                   |
| 5/19/2017  | Buy       | BLUE   | \$84.89  | \$81.15              | \$88.90    | \$82.45       | \$95.80                    |
| 5/19/2017  | Buy       | TWLO   | \$25.15  | \$24.15              | \$25.42    | \$25.16       | \$31.06                    |
| 5/19/2017  | Buy       | BLUE   | \$82.49  | \$81.15              | \$88.90    | \$82.45       | \$95.80                    |
| 5/19/2017  | Sell      | PYPL   | \$49.36  | \$49.06              | \$49.71    | \$49.39       | \$59.09                    |
| 5/19/2017  | Sell      | ATHN   | \$132.15 | \$130.01             | \$132.88   | \$130.39      | \$143.80                   |
| 5/19/2017  | Buy       | BIIB   | \$254.07 | \$249.71             | \$254.82   | \$250.09      | \$281.44                   |
| 5/19/2017  | Buy       | BLUE   | \$86.70  | \$81.15              | \$88.90    | \$82.45       | \$95.80                    |
| 5/19/2017  | Buy       | CGEN   | \$4.29   | \$4.20               | \$5.10     | \$4.75        | \$3.45                     |
| 5/19/2017  | Buy       | FPRX   | \$29.66  | \$29.30              | \$29.88    | \$29.34       | \$29.01                    |
| 5/19/2017  | Buy       | NVTA   | \$9.14   | \$8.94               | \$9.20     | \$9.01        | \$9.34                     |
| 5/19/2017  | Sell      | ATHN   | \$130.38 | \$130.01             | \$132.88   | \$130.39      | \$143.80                   |
| 5/19/2017  | Buy       | BLUE   | \$81.75  | \$81.15              | \$88.90    | \$82.45       | \$95.80                    |
| 5/18/2017  | Sell      | ATHN   | \$124.07 | \$122.50             | \$131.25   | \$130.07      | \$143.80                   |
| 5/18/2017  | Buy       | PI     | \$41.32  | \$40.47              | \$41.99    | \$40.73       | \$54.00                    |
| 5/18/2017  | Buy       | SHOP   | \$86.56  | \$81.00              | \$92.98    | \$92.11       | \$90.87                    |
| 5/18/2017  | Sell      | ATHN   | \$124.00 | \$122.50             | \$131.25   | \$130.07      | \$143.80                   |
| 5/18/2017  | Buy       | MDSO   | \$68.60  | \$68.03              | \$69.84    | \$69.49       | \$75.78                    |
| 5/18/2017  | Buy       | AAPL   | \$152.25 | \$151.13             | \$153.34   | \$152.54      | \$150.34                   |
| 5/18/2017  | Sell      | ATHN   | \$123.76 | \$122.50             | \$131.25   | \$130.07      | \$143.80                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 5/15/2017  | Sell      | ATHN   | \$110.88 | \$109.26             | \$112.10   | \$111.96      | \$143.80                   |
| 5/15/2017  | Buy       | CERS   | \$3.14   | \$3.08               | \$3.23     | \$3.18        | \$2.21                     |
| 5/15/2017  | Buy       | IONS   | \$44.15  | \$41.05              | \$44.77    | \$43.90       | \$55.86                    |
| 5/15/2017  | Buy       | IONS   | \$41.07  | \$41.05              | \$44.77    | \$43.90       | \$55.86                    |
| 5/15/2017  | Sell      | SSYS   | \$30.25  | \$28.55              | \$30.75    | \$29.93       | \$23.60                    |
| 5/15/2017  | Sell      | ALNY   | \$63.07  | \$62.60              | \$68.00    | \$66.00       | \$80.51                    |
| 5/15/2017  | Sell      | ATHN   | \$110.95 | \$109.26             | \$112.10   | \$111.96      | \$143.80                   |
| 5/15/2017  | Buy       | INCY   | \$115.80 | \$114.03             | \$117.49   | \$117.35      | \$133.79                   |
| 5/15/2017  | Buy       | IONS   | \$42.97  | \$41.05              | \$44.77    | \$43.90       | \$55.86                    |
| 5/15/2017  | Buy       | IONS   | \$41.50  | \$41.05              | \$44.77    | \$43.90       | \$55.86                    |
| 5/11/2017  | Buy       | FMI    | \$32.50  | \$32.50              | \$34.52    | \$32.95       | \$38.00                    |
| 5/11/2017  | Sell      | SSYS   | \$29.65  | \$28.64              | \$29.94    | \$29.66       | \$23.60                    |
| 5/11/2017  | Buy       | PSTI   | \$1.33   | \$1.31               | \$1.34     | \$1.34        | \$1.18                     |
| 5/11/2017  | Sell      | ILMN   | \$180.00 | \$179.28             | \$182.41   | \$181.74      | \$171.97                   |
| 5/10/2017  | Buy       | FMI    | \$33.20  | \$32.50              | \$35.50    | \$34.15       | \$38.00                    |
| 5/10/2017  | Sell      | SSYS   | \$28.91  | \$27.87              | \$29.38    | \$29.15       | \$23.60                    |
| 5/9/2017   | Buy       | KITE   | \$68.00  | \$66.75              | \$72.93    | \$72.10       | \$109.89                   |
| 5/9/2017   | Buy       | CGEN   | \$3.75   | \$3.65               | \$4.10     | \$3.95        | \$3.45                     |
| 5/9/2017   | Buy       | NVTA   | \$10.00  | \$9.75               | \$10.99    | \$9.79        | \$9.34                     |
| 5/9/2017   | Sell      | FMI    | \$36.37  | \$35.75              | \$36.72    | \$36.10       | \$38.00                    |
| 5/9/2017   | Buy       | PLUG   | \$2.03   | \$1.98               | \$2.14     | \$2.09        | \$2.12                     |
| 5/9/2017   | Sell      | PRLB   | \$60.90  | \$60.65              | \$62.20    | \$61.70       | \$70.60                    |
| 5/9/2017   | Buy       | KITE   | \$67.34  | \$66.75              | \$72.93    | \$72.10       | \$109.89                   |
| 5/9/2017   | Buy       | NVTA   | \$10.00  | \$9.75               | \$10.99    | \$9.79        | \$9.34                     |
| 5/9/2017   | Sell      | SSYS   | \$27.06  | \$26.61              | \$28.00    | \$27.86       | \$23.60                    |
| 5/8/2017   | Buy       | KITE   | \$75.00  | \$68.61              | \$76.00    | \$70.99       | \$109.89                   |
| 5/8/2017   | Buy       | KITE   | \$72.00  | \$68.61              | \$76.00    | \$70.99       | \$109.89                   |
| 5/8/2017   | Buy       | CRSP   | \$16.79  | \$16.25              | \$17.00    | \$16.70       | \$16.53                    |
| 5/8/2017   | Buy       | VCYT   | \$7.43   | \$7.25               | \$7.81     | \$7.63        | \$8.14                     |
| 5/8/2017   | Sell      | IBM    | \$152.86 | \$152.20             | \$153.47   | \$153.03      | \$147.66                   |
| 5/8/2017   | Sell      | SSYS   | \$26.67  | \$26.33              | \$27.25    | \$27.22       | \$23.60                    |
| 5/8/2017   | Buy       | DLPH   | \$87.55  | \$86.94              | \$88.24    | \$87.41       | \$93.10                    |
| 5/8/2017   | Buy       | KITE   | \$72.75  | \$68.61              | \$76.00    | \$70.99       | \$109.89                   |
| 5/8/2017   | Buy       | XLNX   | \$63.87  | \$63.49              | \$64.98    | \$64.57       | \$65.81                    |
| 5/8/2017   | Buy       | KITE   | \$72.29  | \$68.61              | \$76.00    | \$70.99       | \$109.89                   |
| 5/8/2017   | Sell      | PRLB   | \$61.95  | \$60.60              | \$62.10    | \$61.15       | \$70.60                    |
| 5/8/2017   | Sell      | SSYS   | \$27.13  | \$26.33              | \$27.25    | \$27.22       | \$23.60                    |
| 5/8/2017   | Sell      | TWTR   | \$18.29  | \$18.16              | \$18.68    | \$18.31       | \$20.53                    |
| 5/8/2017   | Sell      | CTRP   | \$52.85  | \$52.54              | \$53.12    | \$52.97       | \$57.36                    |
| 5/8/2017   | Sell      | MTLS   | \$10.75  | \$10.55              | \$11.45    | \$10.81       | \$13.33                    |
| 5/8/2017   | Sell      | NVTA   | \$10.72  | \$10.54              | \$10.89    | \$10.78       | \$9.34                     |
| 5/8/2017   | Sell      | SQ     | \$19.73  | \$19.47              | \$19.84    | \$19.56       | \$26.39                    |
| 5/8/2017   | Sell      | TER    | \$35.46  | \$35.29              | \$35.84    | \$35.37       | \$35.33                    |
| 5/8/2017   | Sell      | FMI    | \$35.83  | \$35.33              | \$37.15    | \$35.40       | \$38.00                    |
| 5/8/2017   | Buy       | VCYT   | \$7.34   | \$7.25               | \$7.81     | \$7.63        | \$8.14                     |
| 5/8/2017   | Buy       | TWLO   | \$24.15  | \$22.80              | \$24.16    | \$23.84       | \$31.06                    |
| 5/8/2017   | Buy       | AKAM   | \$50.24  | \$50.12              | \$52.17    | \$50.17       | \$52.36                    |
| 5/8/2017   | Buy       | CERS   | \$3.18   | \$3.11               | \$3.39     | \$3.11        | \$2.21                     |
| 5/8/2017   | Buy       | XLNX   | \$63.94  | \$63.49              | \$64.98    | \$64.57       | \$65.81                    |
| 5/8/2017   | Sell      | MELI   | \$275.55 | \$273.03             | \$276.97   | \$274.96      | \$282.08                   |
| 5/8/2017   | Sell      | CTRP   | \$52.97  | \$52.54              | \$53.12    | \$52.97       | \$57.36                    |
| 5/5/2017   | Buy       | FPRX   | \$29.99  | \$28.51              | \$31.34    | \$29.79       | \$29.01                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 5/5/2017   | Buy       | JUNO   | \$23.49  | \$23.14              | \$25.50    | \$23.68       | \$29.04                    |
| 5/5/2017   | Sell      | ALNY   | \$54.66  | \$52.17              | \$57.39    | \$55.07       | \$80.51                    |
| 5/5/2017   | Sell      | FMI    | \$35.35  | \$35.00              | \$35.75    | \$35.65       | \$38.00                    |
| 5/5/2017   | Sell      | NVTA   | \$10.73  | \$10.70              | \$10.98    | \$10.80       | \$9.34                     |
| 5/5/2017   | Buy       | BYDDY  | \$11.13  | \$11.09              | \$11.32    | \$11.16       | \$13.10                    |
| 5/5/2017   | Sell      | CSOD   | \$38.91  | \$37.71              | \$39.21    | \$39.19       | \$40.76                    |
| 5/5/2017   | Buy       | JUNO   | \$23.64  | \$23.14              | \$25.50    | \$23.68       | \$29.04                    |
| 5/5/2017   | Buy       | LC     | \$5.86   | \$5.61               | \$5.95     | \$5.75        | \$5.20                     |
| 5/5/2017   | Sell      | IBM    | \$154.76 | \$153.00             | \$155.78   | \$155.05      | \$147.66                   |
| 5/5/2017   | Sell      | SSYS   | \$26.46  | \$25.64              | \$26.55    | \$26.51       | \$23.60                    |
| 5/5/2017   | Sell      | FMI    | \$35.40  | \$35.00              | \$35.75    | \$35.65       | \$38.00                    |
| 5/5/2017   | Sell      | NVTA   | \$10.76  | \$10.70              | \$10.98    | \$10.80       | \$9.34                     |
| 5/5/2017   | Buy       | LC     | \$5.86   | \$5.61               | \$5.95     | \$5.75        | \$5.20                     |
| 5/5/2017   | Sell      | HUBS   | \$69.55  | \$69.25              | \$70.85    | \$70.65       | \$73.95                    |
| 5/4/2017   | Buy       | CERS   | \$3.43   | \$2.83               | \$4.00     | \$3.49        | \$2.21                     |
| 5/4/2017   | Buy       | VCYT   | \$7.40   | \$7.15               | \$8.39     | \$8.26        | \$8.14                     |
| 5/4/2017   | Sell      | ILMN   | \$187.27 | \$186.79             | \$188.97   | \$188.85      | \$171.97                   |
| 5/4/2017   | Buy       | TSLA   | \$295.00 | \$290.76             | \$307.77   | \$295.46      | \$329.92                   |
| 5/4/2017   | Sell      | NFLX   | \$157.34 | \$154.55             | \$157.90   | \$157.25      | \$183.60                   |
| 5/4/2017   | Sell      | FB     | \$150.83 | \$148.72             | \$151.52   | \$150.85      | \$164.53                   |
| 5/4/2017   | Buy       | AKAM   | \$53.37  | \$52.78              | \$54.04    | \$52.86       | \$52.36                    |
| 5/4/2017   | Buy       | TSLA   | \$295.00 | \$290.76             | \$307.77   | \$295.46      | \$329.92                   |
| 5/4/2017   | Buy       | CERS   | \$3.46   | \$2.83               | \$4.00     | \$3.49        | \$2.21                     |
| 5/4/2017   | Buy       | VCYT   | \$7.35   | \$7.15               | \$8.39     | \$8.26        | \$8.14                     |
| 5/4/2017   | Sell      | ILMN   | \$187.36 | \$186.79             | \$188.97   | \$188.85      | \$171.97                   |
| 5/4/2017   | Sell      | XLNX   | \$62.86  | \$62.41              | \$63.03    | \$62.94       | \$65.81                    |
| 5/4/2017   | Sell      | SSYS   | \$25.32  | \$25.11              | \$26.44    | \$25.64       | \$23.60                    |
| 5/4/2017   | Sell      | TWTR   | \$18.54  | \$18.36              | \$18.89    | \$18.48       | \$20.53                    |
| 5/4/2017   | Sell      | PRLB   | \$59.31  | \$58.80              | \$59.85    | \$59.75       | \$70.60                    |
| 5/3/2017   | Buy       | TWLO   | \$25.45  | \$24.15              | \$26.44    | \$25.01       | \$31.06                    |
| 5/3/2017   | Buy       | TWLO   | \$24.92  | \$24.15              | \$26.44    | \$25.01       | \$31.06                    |
| 5/3/2017   | Sell      | IBM    | \$158.74 | \$158.52             | \$159.45   | \$158.63      | \$147.66                   |
| 5/3/2017   | Sell      | SSYS   | \$26.41  | \$25.67              | \$26.51    | \$26.13       | \$23.60                    |
| 5/3/2017   | Buy       | AKAM   | \$53.94  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | AKAM   | \$53.90  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | AKAM   | \$54.00  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | AKAM   | \$54.42  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | AKAM   | \$54.74  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | TWLO   | \$24.37  | \$24.15              | \$26.44    | \$25.01       | \$31.06                    |
| 5/3/2017   | Buy       | AKAM   | \$53.39  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | AKAM   | \$54.03  | \$52.01              | \$54.86    | \$52.80       | \$52.36                    |
| 5/3/2017   | Buy       | TWLO   | \$24.80  | \$24.15              | \$26.44    | \$25.01       | \$31.06                    |
| 5/3/2017   | Sell      | NVDA   | \$103.88 | \$102.60             | \$104.64   | \$104.25      | \$167.50                   |
| 5/3/2017   | Sell      | SPLK   | \$64.45  | \$64.37              | \$65.26    | \$64.93       | \$61.56                    |
| 5/3/2017   | Sell      | BABA   | \$116.15 | \$115.12             | \$118.00   | \$116.57      | \$152.11                   |
| 5/3/2017   | Sell      | TCEHY  | \$31.85  | \$31.82              | \$31.99    | \$31.86       | \$38.16                    |
| 5/2/2017   | Buy       | CGEN   | \$4.10   | \$3.95               | \$4.15     | \$3.95        | \$3.45                     |
| 5/1/2017   | Buy       | ATHN   | \$95.49  | \$95.01              | \$99.70    | \$98.28       | \$143.80                   |
| 5/1/2017   | Sell      | IBM    | \$159.19 | \$158.70             | \$160.42   | \$158.84      | \$147.66                   |
| 5/1/2017   | Buy       | CGEN   | \$4.03   | \$3.85               | \$4.30     | \$4.15        | \$3.45                     |
| 5/1/2017   | Buy       | EDIT   | \$19.00  | \$18.74              | \$20.50    | \$20.27       | \$15.74                    |
| 5/1/2017   | Buy       | HDP    | \$10.50  | \$10.40              | \$10.51    | \$10.49       | \$12.52                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 5/1/2017   | Buy       | ATHN   | \$96.35  | \$95.01              | \$99.70    | \$98.28       | \$143.80                   |
| 5/1/2017   | Sell      | JUNO   | \$25.13  | \$24.85              | \$25.37    | \$25.33       | \$29.04                    |
| 5/1/2017   | Sell      | BAYRY  | \$122.01 | \$121.49             | \$122.56   | \$122.23      | \$130.47                   |
| 5/1/2017   | Sell      | NTLA   | \$14.77  | \$14.54              | \$15.33    | \$15.28       | \$16.52                    |
| 5/1/2017   | Buy       | EDIT   | \$19.10  | \$18.74              | \$20.50    | \$20.27       | \$15.74                    |
| 5/1/2017   | Buy       | CGEN   | \$4.10   | \$3.85               | \$4.30     | \$4.15        | \$3.45                     |
| 5/1/2017   | Buy       | ATHN   | \$96.27  | \$95.01              | \$99.70    | \$98.28       | \$143.80                   |
| 5/1/2017   | Sell      | TWOU   | \$45.76  | \$45.11              | \$46.18    | \$46.13       | \$50.00                    |
| 5/1/2017   | Sell      | BABA   | \$116.83 | \$115.50             | \$117.24   | \$116.68      | \$152.11                   |
| 4/28/2017  | Buy       | ATHN   | \$97.95  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$99.11  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$99.00  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Sell      | SSYS   | \$24.85  | \$24.66              | \$24.92    | \$24.76       | \$23.60                    |
| 4/28/2017  | Sell      | TSLA   | \$310.87 | \$308.00             | \$314.80   | \$314.07      | \$329.92                   |
| 4/28/2017  | Sell      | XLNX   | \$63.50  | \$62.85              | \$64.24    | \$63.11       | \$65.81                    |
| 4/28/2017  | Sell      | ILMN   | \$184.70 | \$182.95             | \$185.95   | \$184.86      | \$171.97                   |
| 4/28/2017  | Sell      | PRLB   | \$58.15  | \$57.80              | \$58.90    | \$58.00       | \$70.60                    |
| 4/28/2017  | Buy       | ATHN   | \$97.87  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$99.13  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$98.99  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Sell      | AMZN   | \$934.76 | \$924.33             | \$949.59   | \$924.99      | \$1,028.70                 |
| 4/28/2017  | Sell      | NTDOY  | \$31.47  | \$31.25              | \$31.69    | \$31.68       | \$41.53                    |
| 4/28/2017  | Buy       | ATHN   | \$101.19 | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$97.77  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$97.16  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Buy       | ATHN   | \$99.37  | \$96.12              | \$102.56   | \$98.01       | \$143.80                   |
| 4/28/2017  | Sell      | ILMN   | \$185.34 | \$182.95             | \$185.95   | \$184.86      | \$171.97                   |
| 4/28/2017  | Sell      | FMI    | \$34.91  | \$33.90              | \$35.70    | \$35.50       | \$38.00                    |
| 4/28/2017  | Buy       | FLEX   | \$15.20  | \$14.70              | \$15.83    | \$15.46       | \$16.81                    |
| 4/28/2017  | Sell      | SSYS   | \$24.85  | \$24.66              | \$24.92    | \$24.76       | \$23.60                    |
| 4/27/2017  | Buy       | TWTR   | \$16.38  | \$15.80              | \$16.63    | \$16.61       | \$20.53                    |
| 4/27/2017  | Sell      | ILMN   | \$182.53 | \$181.96             | \$184.47   | \$183.74      | \$171.97                   |
| 4/27/2017  | Buy       | MLNX   | \$42.35  | \$41.55              | \$46.93    | \$46.58       | \$44.60                    |
| 4/27/2017  | Buy       | TWTR   | \$16.35  | \$15.80              | \$16.63    | \$16.61       | \$20.53                    |
| 4/27/2017  | Buy       | MLNX   | \$45.49  | \$41.55              | \$46.93    | \$46.58       | \$44.60                    |
| 4/27/2017  | Sell      | SPLK   | \$64.63  | \$64.11              | \$65.16    | \$64.60       | \$61.56                    |
| 4/27/2017  | Sell      | IBM    | \$159.99 | \$159.63             | \$160.48   | \$160.32      | \$147.66                   |
| 4/25/2017  | Buy       | NFLX   | \$147.52 | \$146.22             | \$153.52   | \$152.16      | \$183.60                   |
| 4/25/2017  | Sell      | ILMN   | \$181.59 | \$179.79             | \$182.42   | \$181.50      | \$171.97                   |
| 4/19/2017  | Buy       | IBM    | \$161.74 | \$159.60             | \$162.64   | \$161.69      | \$147.66                   |
| 4/19/2017  | Sell      | ILMN   | \$178.17 | \$175.34             | \$180.62   | \$178.03      | \$171.97                   |
| 4/19/2017  | Buy       | IBM    | \$161.90 | \$159.60             | \$162.64   | \$161.69      | \$147.66                   |
| 4/19/2017  | Sell      | HUBS   | \$64.00  | \$62.60              | \$64.50    | \$63.80       | \$73.95                    |
| 4/19/2017  | Sell      | CTRP   | \$48.76  | \$46.64              | \$50.15    | \$47.15       | \$57.36                    |
| 4/19/2017  | Buy       | IBM    | \$161.85 | \$159.60             | \$162.64   | \$161.69      | \$147.66                   |
| 4/19/2017  | Sell      | ILMN   | \$177.64 | \$175.34             | \$180.62   | \$178.03      | \$171.97                   |
| 4/17/2017  | Buy       | INCY   | \$125.42 | \$124.05             | \$127.43   | \$126.07      | \$133.79                   |
| 4/17/2017  | Sell      | FMI    | \$33.00  | \$32.40              | \$34.45    | \$34.30       | \$38.00                    |
| 4/13/2017  | Sell      | BYDDF  | \$5.90   | \$5.90               | \$6.00     | \$5.90        | \$6.58                     |
| 4/13/2017  | Sell      | DDD    | \$14.51  | \$14.38              | \$14.78    | \$14.48       | \$17.60                    |
| 4/13/2017  | Buy       | PRLB   | \$50.10  | \$49.60              | \$50.40    | \$49.65       | \$70.60                    |
| 4/13/2017  | Buy       | ONVO   | \$2.83   | \$2.80               | \$2.90     | \$2.83        | \$2.32                     |



| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 4/12/2017  | Buy       | IBM    | \$170.36 | \$170.02             | \$171.20   | \$170.66      | \$147.66                   |
| 4/12/2017  | Sell      | TSLA   | \$308.00 | \$296.32             | \$308.45   | \$296.84      | \$329.92                   |
| 4/12/2017  | Sell      | SQ     | \$16.95  | \$16.78              | \$17.51    | \$17.30       | \$26.39                    |
| 4/12/2017  | Sell      | TWOU   | \$42.40  | \$42.03              | \$42.62    | \$42.26       | \$50.00                    |
| 4/11/2017  | Sell      | TSLA   | \$312.05 | \$305.50             | \$313.47   | \$308.71      | \$329.92                   |
| 4/11/2017  | Sell      | HDP    | \$10.70  | \$10.61              | \$11.04    | \$11.00       | \$12.52                    |
| 4/11/2017  | Buy       | TWLO   | \$28.47  | \$28.10              | \$29.63    | \$29.35       | \$31.06                    |
| 4/10/2017  | Buy       | PLUG   | \$2.11   | \$1.97               | \$2.48     | \$2.45        | \$2.12                     |
| 4/10/2017  | Buy       | TCEHY  | \$29.18  | \$29.12              | \$29.31    | \$29.20       | \$38.16                    |
| 4/10/2017  | Sell      | ALGN   | \$114.51 | \$114.27             | \$115.25   | \$114.73      | \$160.17                   |
| 4/10/2017  | Sell      | ROK    | \$156.04 | \$155.51             | \$157.48   | \$156.05      | \$166.83                   |
| 4/10/2017  | Sell      | TER    | \$31.67  | \$31.63              | \$32.16    | \$31.76       | \$35.33                    |
| 4/10/2017  | Sell      | MTLS   | \$9.24   | \$9.12               | \$9.25     | \$9.15        | \$13.33                    |
| 4/10/2017  | Sell      | ADSK   | \$85.25  | \$84.62              | \$85.88    | \$85.66       | \$109.91                   |
| 4/10/2017  | Sell      | FMI    | \$30.50  | \$30.20              | \$31.00    | \$30.40       | \$38.00                    |
| 4/10/2017  | Buy       | MDSO   | \$62.88  | \$62.35              | \$64.52    | \$62.48       | \$75.78                    |
| 4/10/2017  | Buy       | FPRX   | \$33.88  | \$32.75              | \$34.15    | \$33.84       | \$29.01                    |
| 4/10/2017  | Buy       | TWLO   | \$28.10  | \$27.65              | \$28.87    | \$28.47       | \$31.06                    |
| 4/10/2017  | Buy       | MDSO   | \$62.77  | \$62.35              | \$64.52    | \$62.48       | \$75.78                    |
| 4/10/2017  | Buy       | PRLB   | \$50.78  | \$50.10              | \$51.15    | \$50.15       | \$70.60                    |
| 4/10/2017  | Sell      | MTLS   | \$9.19   | \$9.12               | \$9.25     | \$9.15        | \$13.33                    |
| 4/10/2017  | Sell      | TSLA   | \$312.29 | \$308.71             | \$313.73   | \$312.39      | \$329.92                   |
| 4/10/2017  | Sell      | HDP    | \$10.91  | \$10.62              | \$10.95    | \$10.91       | \$12.52                    |
| 4/10/2017  | Sell      | NVTA   | \$11.07  | \$10.98              | \$11.52    | \$11.12       | \$9.34                     |
| 4/10/2017  | Sell      | FMI    | \$30.30  | \$30.20              | \$31.00    | \$30.40       | \$38.00                    |
| 4/7/2017   | Sell      | VCYT   | \$8.69   | \$8.60               | \$8.89     | \$8.77        | \$8.14                     |
| 4/7/2017   | Sell      | TER    | \$31.97  | \$31.68              | \$32.13    | \$32.02       | \$35.33                    |
| 4/7/2017   | Sell      | NVTA   | \$11.17  | \$10.96              | \$11.48    | \$11.39       | \$9.34                     |
| 4/7/2017   | Sell      | HDP    | \$10.70  | \$10.60              | \$10.88    | \$10.67       | \$12.52                    |
| 4/4/2017   | Buy       | NVDA   | \$101.82 | \$100.34             | \$104.42   | \$100.78      | \$167.50                   |
| 4/4/2017   | Sell      | TSLA   | \$301.15 | \$294.53             | \$304.81   | \$303.70      | \$329.92                   |
| 4/4/2017   | Sell      | FANUY  | \$20.71  | \$20.21              | \$20.75    | \$20.67       | \$20.12                    |
| 4/4/2017   | Buy       | NVDA   | \$101.60 | \$100.34             | \$104.42   | \$100.78      | \$167.50                   |
| 4/4/2017   | Sell      | TSLA   | \$302.95 | \$294.53             | \$304.81   | \$303.70      | \$329.92                   |
| 4/4/2017   | Sell      | NVTA   | \$11.35  | \$11.29              | \$11.72    | \$11.35       | \$9.34                     |
| 4/4/2017   | Buy       | NVDA   | \$101.71 | \$100.34             | \$104.42   | \$100.78      | \$167.50                   |
| 4/4/2017   | Buy       | FPRX   | \$36.18  | \$35.05              | \$36.45    | \$35.34       | \$29.01                    |
| 4/4/2017   | Sell      | NVTA   | \$11.35  | \$11.29              | \$11.72    | \$11.35       | \$9.34                     |
| 4/4/2017   | Sell      | FMI    | \$31.52  | \$31.15              | \$32.80    | \$31.30       | \$38.00                    |
| 4/4/2017   | Sell      | ALNY   | \$50.29  | \$49.70              | \$51.32    | \$50.16       | \$80.51                    |
| 4/4/2017   | Sell      | VCYT   | \$8.75   | \$8.70               | \$9.13     | \$9.01        | \$8.14                     |
| 4/4/2017   | Buy       | NVDA   | \$101.95 | \$100.34             | \$104.42   | \$100.78      | \$167.50                   |
| 4/4/2017   | Sell      | TSLA   | \$302.63 | \$294.53             | \$304.81   | \$303.70      | \$329.92                   |
| 4/4/2017   | Sell      | TWOU   | \$40.00  | \$39.38              | \$40.75    | \$39.69       | \$50.00                    |
| 4/3/2017   | Sell      | TSLA   | \$291.81 | \$284.58             | \$299.00   | \$298.52      | \$329.92                   |
| 4/3/2017   | Sell      | TER    | \$30.56  | \$30.47              | \$31.33    | \$30.88       | \$35.33                    |
| 4/3/2017   | Sell      | TRMB   | \$31.45  | \$31.44              | \$32.19    | \$31.75       | \$37.55                    |
| 4/3/2017   | Buy       | XLNX   | \$56.86  | \$56.79              | \$58.26    | \$57.18       | \$65.81                    |
| 4/3/2017   | Buy       | GE     | \$29.79  | \$29.75              | \$30.00    | \$29.88       | \$26.69                    |
| 4/3/2017   | Buy       | BYDDF  | \$5.61   | \$5.50               | \$5.61     | \$5.59        | \$6.58                     |
| 4/3/2017   | Sell      | TSLA   | \$292.27 | \$284.58             | \$299.00   | \$298.52      | \$329.92                   |
| 4/3/2017   | Buy       | XLNX   | \$57.16  | \$56.79              | \$58.26    | \$57.18       | \$65.81                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 4/3/2017   | Sell      | BLUE   | \$90.19  | \$88.30              | \$91.55    | \$88.55       | \$95.80                    |
| 4/3/2017   | Buy       | CRSP   | \$21.40  | \$21.11              | \$22.22    | \$21.61       | \$16.53                    |
| 4/3/2017   | Sell      | CERS   | \$4.41   | \$4.38               | \$4.55     | \$4.39        | \$2.21                     |
| 4/3/2017   | Buy       | SYRS   | \$15.94  | \$15.25              | \$16.31    | \$15.86       | \$18.35                    |
| 4/3/2017   | Sell      | TSLA   | \$296.91 | \$284.58             | \$299.00   | \$298.52      | \$329.92                   |
| 4/3/2017   | Sell      | GM     | \$34.03  | \$33.80              | \$35.40    | \$34.17       | \$36.41                    |
| 4/3/2017   | Buy       | XLNX   | \$57.06  | \$56.79              | \$58.26    | \$57.18       | \$65.81                    |
| 3/31/2017  | Sell      | ALNY   | \$50.78  | \$51.80              | \$50.50    | \$51.25       | \$80.51                    |
| 3/31/2017  | Buy       | EDIT   | \$22.24  | \$22.69              | \$21.79    | \$22.32       | \$15.74                    |
| 3/30/2017  | Sell      | ALNY   | \$51.14  | \$50.70              | \$52.81    | \$51.25       | \$80.51                    |
| 3/30/2017  | Buy       | NTLA   | \$13.75  | \$13.61              | \$14.24    | \$13.75       | \$16.52                    |
| 3/30/2017  | Buy       | IONS   | \$39.87  | \$38.65              | \$40.58    | \$40.41       | \$55.86                    |
| 3/30/2017  | Buy       | EDIT   | \$21.72  | \$21.01              | \$22.55    | \$22.13       | \$15.74                    |
| 3/30/2017  | Sell      | ALNY   | \$51.24  | \$50.70              | \$52.81    | \$51.25       | \$80.51                    |
| 3/30/2017  | Buy       | NTLA   | \$13.75  | \$13.61              | \$14.24    | \$13.75       | \$16.52                    |
| 3/29/2017  | Buy       | XLNX   | \$57.98  | \$57.81              | \$58.24    | \$58.02       | \$65.81                    |
| 3/29/2017  | Sell      | TSLA   | \$277.22 | \$275.54             | \$279.60   | \$277.38      | \$329.92                   |
| 3/29/2017  | Sell      | BIDU   | \$170.05 | \$169.34             | \$172.10   | \$170.66      | \$191.32                   |
| 3/29/2017  | Buy       | XLNX   | \$57.90  | \$57.81              | \$58.24    | \$58.02       | \$65.81                    |
| 3/29/2017  | Sell      | TSLA   | \$276.23 | \$275.54             | \$279.60   | \$277.38      | \$329.92                   |
| 3/29/2017  | Sell      | BIDU   | \$170.18 | \$169.34             | \$172.10   | \$170.66      | \$191.32                   |
| 3/29/2017  | Buy       | XLNX   | \$58.13  | \$57.81              | \$58.24    | \$58.02       | \$65.81                    |
| 3/29/2017  | Sell      | TSLA   | \$278.10 | \$275.54             | \$279.60   | \$277.38      | \$329.92                   |
| 3/29/2017  | Sell      | BIDU   | \$171.19 | \$169.34             | \$172.10   | \$170.66      | \$191.32                   |
| 3/24/2017  | Buy       | NSTG   | \$19.35  | \$19.10              | \$19.51    | \$19.36       | \$15.95                    |
| 3/24/2017  | Sell      | FMI    | \$32.36  | \$32.15              | \$33.02    | \$32.90       | \$38.00                    |
| 3/24/2017  | Buy       | NSTG   | \$19.40  | \$19.10              | \$19.51    | \$19.36       | \$15.95                    |
| 3/24/2017  | Sell      | FMI    | \$32.60  | \$32.15              | \$33.02    | \$32.90       | \$38.00                    |
| 3/24/2017  | Sell      | NVTA   | \$10.38  | \$10.28              | \$10.60    | \$10.40       | \$9.34                     |
| 3/21/2017  | Sell      | NFLX   | \$144.36 | \$142.10             | \$147.70   | \$142.42      | \$183.60                   |
| 3/21/2017  | Buy       | TWLO   | \$29.62  | \$29.23              | \$31.33    | \$29.60       | \$31.06                    |
| 3/21/2017  | Buy       | EDIT   | \$20.74  | \$20.09              | \$22.63    | \$20.86       | \$15.74                    |
| 3/21/2017  | Sell      | ILMN   | \$163.95 | \$162.35             | \$164.49   | \$163.50      | \$171.97                   |
| 3/21/2017  | Sell      | ILMN   | \$163.98 | \$162.35             | \$164.49   | \$163.50      | \$171.97                   |
| 3/21/2017  | Buy       | NTLA   | \$13.39  | \$13.05              | \$14.58    | \$13.05       | \$16.52                    |
| 3/21/2017  | Buy       | EDIT   | \$20.85  | \$20.09              | \$22.63    | \$20.86       | \$15.74                    |
| 3/17/2017  | Buy       | EDIT   | \$23.00  | \$22.21              | \$23.83    | \$22.30       | \$15.74                    |
| 3/17/2017  | Sell      | BLUE   | \$93.50  | \$91.15              | \$96.25    | \$92.40       | \$95.80                    |
| 3/17/2017  | Sell      | FMI    | \$32.25  | \$31.45              | \$33.05    | \$32.45       | \$38.00                    |
| 3/17/2017  | Buy       | XONE   | \$9.64   | \$9.25               | \$10.45    | \$10.45       | \$11.42                    |
| 3/17/2017  | Sell      | TRMB   | \$31.52  | \$31.50              | \$31.91    | \$31.72       | \$37.55                    |
| 3/17/2017  | Buy       | EDIT   | \$22.67  | \$22.21              | \$23.83    | \$22.30       | \$15.74                    |
| 3/17/2017  | Buy       | XONE   | \$9.68   | \$9.25               | \$10.45    | \$10.45       | \$11.42                    |
| 3/17/2017  | Sell      | NVTA   | \$10.23  | \$10.16              | \$10.49    | \$10.36       | \$9.34                     |
| 3/17/2017  | Sell      | ATHN   | \$115.35 | \$114.21             | \$115.99   | \$115.01      | \$143.80                   |
| 3/16/2017  | Buy       | MCRB   | \$10.32  | \$9.87               | \$13.32    | \$12.71       | \$13.60                    |
| 3/16/2017  | Buy       | INO    | \$6.39   | \$6.05               | \$6.59     | \$6.21        | \$6.01                     |
| 3/16/2017  | Sell      | KITE   | \$84.37  | \$82.60              | \$85.74    | \$84.35       | \$109.89                   |
| 3/16/2017  | Sell      | ATHN   | \$115.67 | \$115.42             | \$116.75   | \$115.57      | \$143.80                   |
| 3/16/2017  | Buy       | MCRB   | \$11.99  | \$9.87               | \$13.32    | \$12.71       | \$13.60                    |
| 3/16/2017  | Buy       | IONS   | \$40.00  | \$39.32              | \$42.12    | \$41.72       | \$55.86                    |
| 3/16/2017  | Sell      | ATHN   | \$115.46 | \$115.42             | \$116.75   | \$115.57      | \$143.80                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 3/15/2017  | Buy       | AMOT   | \$20.45  | \$19.25              | \$20.83    | \$20.34       | \$29.05                       |
| 3/15/2017  | Sell      | CSOD   | \$40.61  | \$40.47              | \$40.92    | \$40.79       | \$40.76                       |
| 3/15/2017  | Sell      | AVAV   | \$27.37  | \$27.07              | \$27.69    | \$27.56       | \$38.11                       |
| 3/15/2017  | Buy       | TWTR   | \$14.94  | \$14.85              | \$15.30    | \$15.03       | \$20.53                       |
| 3/15/2017  | Sell      | BLUE   | \$98.61  | \$92.41              | \$98.75    | \$97.85       | \$95.80                       |
| 3/15/2017  | Sell      | KITE   | \$83.68  | \$82.65              | \$85.93    | \$83.56       | \$109.89                      |
| 3/15/2017  | Buy       | EDIT   | \$24.59  | \$23.86              | \$27.00    | \$24.64       | \$15.74                       |
| 3/15/2017  | Buy       | NTLA   | \$13.70  | \$13.10              | \$13.87    | \$13.72       | \$16.52                       |
| 3/15/2017  | Sell      | FMI    | \$32.28  | \$31.75              | \$32.45    | \$32.10       | \$38.00                       |
| 3/15/2017  | Sell      | ILMN   | \$165.31 | \$164.01             | \$166.44   | \$165.95      | \$171.97                      |
| 3/15/2017  | Buy       | TWTR   | \$14.93  | \$14.85              | \$15.30    | \$15.03       | \$20.53                       |
| 3/15/2017  | Sell      | HUBS   | \$64.95  | \$63.60              | \$65.40    | \$65.30       | \$73.95                       |
| 3/15/2017  | Sell      | INCY   | \$152.68 | \$147.90             | \$153.15   | \$152.66      | \$133.79                      |
| 3/15/2017  | Buy       | NVDA   | \$102.60 | \$100.32             | \$102.99   | \$102.55      | \$167.50                      |
| 3/15/2017  | Sell      | BMRN   | \$92.37  | \$90.93              | \$92.60    | \$92.50       | \$87.74                       |
| 3/15/2017  | Buy       | NTLA   | \$13.76  | \$13.10              | \$13.87    | \$13.72       | \$16.52                       |
| 3/15/2017  | Buy       | EDIT   | \$24.74  | \$23.86              | \$27.00    | \$24.64       | \$15.74                       |
| 3/15/2017  | Buy       | MDSO   | \$58.01  | \$56.51              | \$58.14    | \$58.00       | \$75.78                       |
| 3/14/2017  | Buy       | IBM    | \$176.38 | \$175.21             | \$176.82   | \$175.72      | \$147.66                      |
| 3/14/2017  | Sell      | FMI    | \$32.31  | \$32.10              | \$32.65    | \$32.20       | \$38.00                       |
| 3/14/2017  | Sell      | KITE   | \$85.18  | \$82.28              | \$86.30    | \$83.89       | \$109.89                      |
| 3/14/2017  | Buy       | IBM    | \$176.47 | \$175.21             | \$176.82   | \$175.72      | \$147.66                      |
| 3/14/2017  | Sell      | ILMN   | \$164.79 | \$164.30             | \$166.89   | \$164.83      | \$171.97                      |
| 3/14/2017  | Sell      | AMBA   | \$56.72  | \$55.78              | \$56.82    | \$55.95       | \$51.35                       |
| 3/14/2017  | Buy       | IBM    | \$176.24 | \$175.21             | \$176.82   | \$175.72      | \$147.66                      |
| 3/14/2017  | Buy       | MDSO   | \$56.47  | \$56.08              | \$57.22    | \$56.80       | \$75.78                       |
| 3/10/2017  | Buy       | IONS   | \$41.55  | \$39.85              | \$43.00    | \$41.84       | \$55.86                       |
| 3/10/2017  | Sell      | ALNY   | \$51.30  | \$49.91              | \$51.95    | \$50.73       | \$80.51                       |
| 3/10/2017  | Buy       | IONS   | \$41.01  | \$39.85              | \$43.00    | \$41.84       | \$55.86                       |
| 3/10/2017  | Sell      | ALNY   | \$51.01  | \$49.91              | \$51.95    | \$50.73       | \$80.51                       |
| 3/9/2017   | Buy       | CLLS   | \$22.70  | \$22.54              | \$23.36    | \$23.09       | \$26.79                       |
| 3/9/2017   | Sell      | ALNY   | \$51.27  | \$50.71              | \$52.86    | \$51.48       | \$80.51                       |
| 3/9/2017   | Buy       | SSYS   | \$18.70  | \$18.06              | \$19.44    | \$18.17       | \$23.60                       |
| 3/9/2017   | Buy       | SSYS   | \$18.63  | \$18.06              | \$19.44    | \$18.17       | \$23.60                       |
| 3/9/2017   | Sell      | AMZN   | \$852.86 | \$850.31             | \$856.40   | \$853.00      | \$1,028.70                    |
| 3/9/2017   | Buy       | BIDU   | \$173.41 | \$172.94             | \$175.20   | \$173.32      | \$191.32                      |
| 3/9/2017   | Buy       | NVDA   | \$98.33  | \$97.40              | \$99.45    | \$98.54       | \$167.50                      |
| 3/9/2017   | Buy       | CERS   | \$4.08   | \$3.79               | \$4.14     | \$4.14        | \$2.21                        |
| 3/9/2017   | Buy       | SSYS   | \$18.75  | \$18.06              | \$19.44    | \$18.17       | \$23.60                       |
| 3/9/2017   | Buy       | SSYS   | \$18.66  | \$18.06              | \$19.44    | \$18.17       | \$23.60                       |
| 3/9/2017   | Sell      | AVAV   | \$27.27  | \$26.85              | \$27.70    | \$27.11       | \$38.11                       |
| 3/9/2017   | Sell      | TRMB   | \$31.47  | \$31.33              | \$31.70    | \$31.37       | \$37.55                       |
| 3/9/2017   | Sell      | PYPL   | \$42.87  | \$42.45              | \$43.00    | \$42.92       | \$59.09                       |
| 3/7/2017   | Sell      | FMI    | \$34.40  | \$32.51              | \$34.90    | \$34.20       | \$38.00                       |
| 3/7/2017   | Buy       | EDIT   | \$21.35  | \$20.61              | \$21.60    | \$21.28       | \$15.74                       |
| 3/7/2017   | Buy       | JUNO   | \$20.84  | \$20.50              | \$21.54    | \$20.80       | \$29.04                       |
| 3/7/2017   | Buy       | IONS   | \$47.29  | \$46.30              | \$49.15    | \$46.51       | \$55.86                       |
| 3/7/2017   | Buy       | NTLA   | \$13.08  | \$12.83              | \$13.31    | \$13.03       | \$16.52                       |
| 3/7/2017   | Sell      | FMI    | \$34.40  | \$32.51              | \$34.90    | \$34.20       | \$38.00                       |
| 3/7/2017   | Buy       | JUNO   | \$20.82  | \$20.50              | \$21.54    | \$20.80       | \$29.04                       |
| 3/7/2017   | Buy       | NTLA   | \$13.09  | \$12.83              | \$13.31    | \$13.03       | \$16.52                       |
| 3/7/2017   | Buy       | CERS   | \$4.23   | \$4.14               | \$4.24     | \$4.15        | \$2.21                        |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 3/7/2017   | Buy       | CGEN   | \$4.45   | \$4.30               | \$4.50     | \$4.40        | \$3.45                     |
| 3/7/2017   | Buy       | LC     | \$5.15   | \$5.03               | \$5.25     | \$5.06        | \$5.20                     |
| 3/3/2017   | Buy       | TWTR   | \$15.91  | \$15.68              | \$16.10    | \$15.75       | \$20.53                    |
| 3/3/2017   | Sell      | BLUE   | \$85.10  | \$84.20              | \$88.70    | \$84.95       | \$95.80                    |
| 3/3/2017   | Sell      | ALNY   | \$50.91  | \$49.88              | \$51.60    | \$51.44       | \$80.51                    |
| 3/3/2017   | Buy       | JUNO   | \$21.31  | \$21.27              | \$22.99    | \$21.61       | \$29.04                    |
| 3/3/2017   | Buy       | TWTR   | \$15.91  | \$15.68              | \$16.10    | \$15.75       | \$20.53                    |
| 3/3/2017   | Sell      | MELI   | \$212.64 | \$207.06             | \$213.03   | \$212.76      | \$282.08                   |
| 3/3/2017   | Sell      | ALNY   | \$50.90  | \$49.88              | \$51.60    | \$51.44       | \$80.51                    |
| 3/3/2017   | Buy       | JUNO   | \$21.38  | \$21.27              | \$22.99    | \$21.61       | \$29.04                    |
| 3/2/2017   | Buy       | JUNO   | \$22.99  | \$21.87              | \$24.87    | \$22.62       | \$29.04                    |
| 3/2/2017   | Sell      | ALNY   | \$50.90  | \$50.01              | \$52.97    | \$50.52       | \$80.51                    |
| 3/2/2017   | Sell      | BLUE   | \$89.31  | \$86.25              | \$94.75    | \$87.00       | \$95.80                    |
| 3/2/2017   | Buy       | CGEN   | \$4.53   | \$4.30               | \$4.65     | \$4.45        | \$3.45                     |
| 3/2/2017   | Buy       | CERS   | \$4.48   | \$4.29               | \$4.55     | \$4.41        | \$2.21                     |
| 3/2/2017   | Buy       | NVDA   | \$99.38  | \$98.89              | \$102.84   | \$99.00       | \$167.50                   |
| 3/2/2017   | Buy       | JUNO   | \$21.97  | \$21.87              | \$24.87    | \$22.62       | \$29.04                    |
| 3/2/2017   | Sell      | NVTA   | \$10.62  | \$10.51              | \$10.96    | \$10.58       | \$9.34                     |
| 2/28/2017  | Buy       | JUNO   | \$23.50  | \$23.14              | \$24.65    | \$24.04       | \$29.04                    |
| 2/28/2017  | Sell      | ATHN   | \$118.02 | \$115.59             | \$119.03   | \$117.93      | \$143.80                   |
| 2/28/2017  | Buy       | SSYS   | \$20.12  | \$19.70              | \$20.89    | \$19.77       | \$23.60                    |
| 2/28/2017  | Sell      | DDD    | \$15.40  | \$14.83              | \$16.77    | \$15.20       | \$17.60                    |
| 2/28/2017  | Buy       | JUNO   | \$23.57  | \$23.14              | \$24.65    | \$24.04       | \$29.04                    |
| 2/28/2017  | Buy       | SSYS   | \$20.04  | \$19.70              | \$20.89    | \$19.77       | \$23.60                    |
| 2/28/2017  | Buy       | LC     | \$5.49   | \$5.33               | \$5.61     | \$5.34        | \$5.20                     |
| 2/28/2017  | Sell      | DDD    | \$15.47  | \$14.83              | \$16.77    | \$15.20       | \$17.60                    |
| 2/27/2017  | Buy       | TSLA   | \$245.75 | \$242.01             | \$248.36   | \$246.23      | \$329.92                   |
| 2/27/2017  | Sell      | NSTG   | \$19.10  | \$18.64              | \$19.34    | \$19.08       | \$15.95                    |
| 2/27/2017  | Sell      | TCEHY  | \$27.05  | \$27.00              | \$27.10    | \$27.08       | \$38.16                    |
| 2/27/2017  | Buy       | TSLA   | \$245.85 | \$242.01             | \$248.36   | \$246.23      | \$329.92                   |
| 2/27/2017  | Sell      | NOW    | \$87.82  | \$86.93              | \$90.61    | \$87.75       | \$109.84                   |
| 2/27/2017  | Buy       | LC     | \$5.68   | \$5.42               | \$5.72     | \$5.58        | \$5.20                     |
| 2/27/2017  | Sell      | BABA   | \$103.47 | \$102.22             | \$103.83   | \$103.60      | \$152.11                   |
| 2/27/2017  | Sell      | TCEHY  | \$27.04  | \$27.00              | \$27.10    | \$27.08       | \$38.16                    |
| 2/27/2017  | Sell      | TRMB   | \$31.44  | \$31.17              | \$31.49    | \$31.48       | \$37.55                    |
| 2/27/2017  | Buy       | GM     | \$37.07  | \$36.86              | \$37.36    | \$37.27       | \$36.41                    |
| 2/27/2017  | Buy       | BIDU   | \$172.33 | \$171.73             | \$176.28   | \$172.97      | \$191.32                   |
| 2/27/2017  | Buy       | SYRS   | \$11.02  | \$10.71              | \$11.13    | \$11.01       | \$18.35                    |
| 2/27/2017  | Sell      | NSTG   | \$19.14  | \$18.64              | \$19.34    | \$19.08       | \$15.95                    |
| 2/27/2017  | Sell      | NSTG   | \$19.25  | \$18.64              | \$19.34    | \$19.08       | \$15.95                    |
| 2/24/2017  | Buy       | SPLK   | \$62.98  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Buy       | SPLK   | \$62.55  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Sell      | DDD    | \$16.45  | \$16.00              | \$16.49    | \$16.49       | \$17.60                    |
| 2/24/2017  | Buy       | SPLK   | \$64.48  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Buy       | TSLA   | \$251.59 | \$250.20             | \$258.25   | \$257.00      | \$329.92                   |
| 2/24/2017  | Buy       | SPLK   | \$61.98  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Sell      | QCOM   | \$56.96  | \$56.50              | \$57.23    | \$57.22       | \$53.97                    |
| 2/24/2017  | Sell      | DDD    | \$16.43  | \$16.00              | \$16.49    | \$16.49       | \$17.60                    |
| 2/24/2017  | Buy       | SPLK   | \$63.40  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Buy       | TSLA   | \$251.66 | \$250.20             | \$258.25   | \$257.00      | \$329.92                   |
| 2/24/2017  | Buy       | SPLK   | \$62.41  | \$61.01              | \$64.61    | \$62.80       | \$61.56                    |
| 2/24/2017  | Sell      | NFLX   | \$143.00 | \$141.55             | \$143.56   | \$143.25      | \$183.60                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 2/24/2017  | Sell      | TREE   | \$123.49 | \$116.40             | \$124.41   | \$123.40      | \$180.90                   |
| 2/23/2017  | Buy       | EDIT   | \$23.75  | \$22.81              | \$24.96    | \$23.59       | \$15.74                    |
| 2/23/2017  | Sell      | BLUE   | \$77.20  | \$74.40              | \$79.70    | \$78.30       | \$95.80                    |
| 2/23/2017  | Buy       | TSLA   | \$259.96 | \$255.56             | \$264.66   | \$255.99      | \$329.92                   |
| 2/23/2017  | Sell      | BLUE   | \$77.50  | \$74.40              | \$79.70    | \$78.30       | \$95.80                    |
| 2/23/2017  | Sell      | MTLS   | \$8.72   | \$8.62               | \$8.93     | \$8.62        | \$13.33                    |
| 2/23/2017  | Sell      | NVTA   | \$10.18  | \$10.01              | \$10.33    | \$10.15       | \$9.34                     |
| 2/23/2017  | Sell      | PYPL   | \$42.47  | \$42.16              | \$42.67    | \$42.53       | \$59.09                    |
| 2/23/2017  | Sell      | TREE   | \$123.27 | \$117.60             | \$130.20   | \$122.25      | \$180.90                   |
| 2/23/2017  | Sell      | SQ     | \$17.07  | \$16.32              | \$17.75    | \$17.15       | \$26.39                    |
| 2/23/2017  | Buy       | GM     | \$37.27  | \$37.19              | \$38.07    | \$37.25       | \$36.41                    |
| 2/23/2017  | Buy       | TSLA   | \$259.85 | \$255.56             | \$264.66   | \$255.99      | \$329.92                   |
| 2/23/2017  | Sell      | TREE   | \$122.80 | \$117.60             | \$130.20   | \$122.25      | \$180.90                   |
| 2/23/2017  | Buy       | GM     | \$37.40  | \$37.19              | \$38.07    | \$37.25       | \$36.41                    |
| 2/23/2017  | Sell      | XLNX   | \$58.95  | \$58.72              | \$59.70    | \$58.94       | \$65.81                    |
| 2/21/2017  | Sell      | BIIB   | \$286.66 | \$286.22             | \$289.91   | \$286.90      | \$281.44                   |
| 2/21/2017  | Sell      | BLUE   | \$75.75  | \$74.95              | \$78.70    | \$76.25       | \$95.80                    |
| 2/21/2017  | Buy       | EDIT   | \$27.80  | \$26.13              | \$28.50    | \$27.27       | \$15.74                    |
| 2/21/2017  | Buy       | GM     | \$37.88  | \$37.42              | \$38.10    | \$37.81       | \$36.41                    |
| 2/21/2017  | Sell      | TM     | \$113.92 | \$113.82             | \$114.59   | \$114.30      | \$109.84                   |
| 2/16/2017  | Buy       | IBM    | \$181.48 | \$180.87             | \$182.79   | \$181.43      | \$147.66                   |
| 2/16/2017  | Sell      | TMO    | \$158.02 | \$157.44             | \$158.55   | \$157.71      | \$181.55                   |
| 2/16/2017  | Sell      | NVDA   | \$106.74 | \$105.66             | \$109.44   | \$107.25      | \$167.50                   |
| 2/16/2017  | Sell      | FMI    | \$23.35  | \$23.15              | \$24.00    | \$23.85       | \$38.00                    |
| 2/16/2017  | Buy       | NTLA   | \$12.67  | \$12.00              | \$13.53    | \$13.44       | \$16.52                    |
| 2/16/2017  | Buy       | IBM    | \$181.11 | \$180.87             | \$182.79   | \$181.43      | \$147.66                   |
| 2/16/2017  | Buy       | NTLA   | \$13.00  | \$12.00              | \$13.53    | \$13.44       | \$16.52                    |
| 2/16/2017  | Buy       | LC     | \$5.90   | \$5.74               | \$6.23     | \$5.78        | \$5.20                     |
| 2/16/2017  | Sell      | TSLA   | \$268.71 | \$268.50             | \$280.00   | \$268.95      | \$329.92                   |
| 2/16/2017  | Sell      | NVDA   | \$106.53 | \$105.66             | \$109.44   | \$107.25      | \$167.50                   |
| 2/16/2017  | Sell      | FMI    | \$23.45  | \$23.15              | \$24.00    | \$23.85       | \$38.00                    |
| 2/16/2017  | Sell      | MTLS   | \$8.98   | \$8.96               | \$9.19     | \$9.05        | \$13.33                    |
| 2/16/2017  | Sell      | UA     | \$19.60  | \$19.45              | \$19.98    | \$19.63       | \$19.05                    |
| 2/16/2017  | Buy       | MLNX   | \$48.25  | \$47.85              | \$48.95    | \$48.90       | \$44.60                    |
| 2/16/2017  | Buy       | TWLO   | \$33.05  | \$32.76              | \$34.28    | \$33.17       | \$31.06                    |
| 2/16/2017  | Buy       | IBM    | \$181.21 | \$180.87             | \$182.79   | \$181.43      | \$147.66                   |
| 2/16/2017  | Buy       | LC     | \$5.83   | \$5.74               | \$6.23     | \$5.78        | \$5.20                     |
| 2/16/2017  | Sell      | GOOG   | \$822.78 | \$818.98             | \$824.40   | \$824.16      | \$968.15                   |
| 2/16/2017  | Sell      | TSLA   | \$270.92 | \$268.50             | \$280.00   | \$268.95      | \$329.92                   |
| 2/15/2017  | Buy       | SGLB   | \$3.50   | \$3.25               | \$3.60     | \$3.25        | \$2.19                     |
| 2/15/2017  | Sell      | TSLA   | \$279.04 | \$276.44             | \$282.24   | \$279.76      | \$329.92                   |
| 2/15/2017  | Buy       | LC     | \$6.11   | \$6.01               | \$6.34     | \$6.29        | \$5.20                     |
| 2/15/2017  | Sell      | SSYS   | \$21.55  | \$21.27              | \$22.11    | \$21.57       | \$23.60                    |
| 2/15/2017  | Buy       | LC     | \$6.26   | \$6.01               | \$6.34     | \$6.29        | \$5.20                     |
| 2/15/2017  | Sell      | NFLX   | \$142.15 | \$140.51             | \$142.43   | \$142.27      | \$183.60                   |
| 2/15/2017  | Buy       | NVTA   | \$9.50   | \$9.31               | \$10.35    | \$10.13       | \$9.34                     |
| 2/15/2017  | Sell      | INCY   | \$120.99 | \$119.01             | \$122.61   | \$120.94      | \$133.79                   |
| 2/13/2017  | Buy       | ONVO   | \$3.00   | \$3.00               | \$3.23     | \$3.05        | \$2.32                     |
| 2/13/2017  | Sell      | VCYT   | \$7.67   | \$7.61               | \$7.84     | \$7.73        | \$8.14                     |
| 2/13/2017  | Buy       | ONVO   | \$3.03   | \$3.00               | \$3.23     | \$3.05        | \$2.32                     |
| 2/13/2017  | Sell      | NVDA   | \$108.90 | \$108.20             | \$113.98   | \$108.38      | \$167.50                   |
| 2/13/2017  | Buy       | ONVO   | \$3.02   | \$3.00               | \$3.23     | \$3.05        | \$2.32                     |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 2/13/2017  | Sell      | NVTA   | \$9.16   | \$8.77               | \$9.25     | \$9.16        | \$9.34                     |
| 2/10/2017  | Buy       | ONVO   | \$3.21   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Buy       | ONVO   | \$3.26   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Buy       | TWTR   | \$15.73  | \$15.50              | \$16.00    | \$15.58       | \$20.53                    |
| 2/10/2017  | Sell      | HDP    | \$10.78  | \$10.52              | \$11.59    | \$10.65       | \$12.52                    |
| 2/10/2017  | Sell      | FMI    | \$25.80  | \$24.66              | \$27.55    | \$25.15       | \$38.00                    |
| 2/10/2017  | Sell      | PRLB   | \$59.50  | \$59.10              | \$60.25    | \$59.40       | \$70.60                    |
| 2/10/2017  | Sell      | MTLS   | \$9.21   | \$8.79               | \$9.36     | \$9.35        | \$13.33                    |
| 2/10/2017  | Sell      | ALNY   | \$45.58  | \$44.56              | \$46.20    | \$45.57       | \$80.51                    |
| 2/10/2017  | Buy       | ONVO   | \$3.20   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Buy       | ONVO   | \$3.22   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Sell      | BIVV   | \$43.05  | \$41.92              | \$44.40    | \$43.42       | \$62.78                    |
| 2/10/2017  | Sell      | FMI    | \$27.25  | \$24.66              | \$27.55    | \$25.15       | \$38.00                    |
| 2/10/2017  | Buy       | TWTR   | \$15.75  | \$15.50              | \$16.00    | \$15.58       | \$20.53                    |
| 2/10/2017  | Sell      | NFLX   | \$144.50 | \$143.97             | \$145.30   | \$144.82      | \$183.60                   |
| 2/10/2017  | Buy       | ONVO   | \$3.20   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Buy       | ONVO   | \$3.23   | \$3.14               | \$3.30     | \$3.19        | \$2.32                     |
| 2/10/2017  | Sell      | NVDA   | \$114.61 | \$112.60             | \$120.70   | \$113.62      | \$167.50                   |
| 2/10/2017  | Buy       | DLPH   | \$73.97  | \$73.48              | \$74.63    | \$74.32       | \$93.10                    |
| 2/10/2017  | Buy       | ROK    | \$151.18 | \$150.11             | \$151.78   | \$151.45      | \$166.83                   |
| 2/9/2017   | Buy       | TWTR   | \$16.99  | \$16.26              | \$17.12    | \$16.41       | \$20.53                    |
| 2/9/2017   | Buy       | TWTR   | \$16.75  | \$16.26              | \$17.12    | \$16.41       | \$20.53                    |
| 2/9/2017   | Sell      | NVDA   | \$117.94 | \$115.60             | \$119.06   | \$116.38      | \$167.50                   |
| 2/9/2017   | Sell      | NFLX   | \$144.12 | \$143.58             | \$145.09   | \$144.14      | \$183.60                   |
| 2/9/2017   | Buy       | TWTR   | \$16.99  | \$16.26              | \$17.12    | \$16.41       | \$20.53                    |
| 2/9/2017   | Buy       | TWTR   | \$16.66  | \$16.26              | \$17.12    | \$16.41       | \$20.53                    |
| 2/9/2017   | Sell      | PRLB   | \$58.95  | \$54.60              | \$60.10    | \$58.00       | \$70.60                    |
| 2/9/2017   | Sell      | HDP    | \$10.08  | \$9.90               | \$10.27    | \$10.17       | \$12.52                    |
| 2/9/2017   | Sell      | LC     | \$6.39   | \$6.20               | \$6.49     | \$6.45        | \$5.20                     |
| 2/9/2017   | Sell      | NVDA   | \$117.53 | \$115.60             | \$119.06   | \$116.38      | \$167.50                   |
| 2/9/2017   | Sell      | NVDA   | \$117.87 | \$115.60             | \$119.06   | \$116.38      | \$167.50                   |
| 2/9/2017   | Buy       | DLPH   | \$73.99  | \$73.43              | \$74.31    | \$73.76       | \$93.10                    |
| 2/8/2017   | Buy       | CLLS   | \$20.50  | \$20.26              | \$21.12    | \$20.68       | \$26.79                    |
| 2/8/2017   | Sell      | FMI    | \$23.85  | \$22.75              | \$25.25    | \$24.00       | \$38.00                    |
| 2/8/2017   | Buy       | PYPL   | \$40.64  | \$39.92              | \$40.99    | \$40.88       | \$59.09                    |
| 2/8/2017   | Sell      | TREE   | \$116.64 | \$112.40             | \$117.85   | \$115.95      | \$180.90                   |
| 2/8/2017   | Sell      | HDP    | \$9.84   | \$9.80               | \$10.41    | \$9.89        | \$12.52                    |
| 2/8/2017   | Buy       | PYPL   | \$40.60  | \$39.92              | \$40.99    | \$40.88       | \$59.09                    |
| 2/8/2017   | Buy       | AKAM   | \$64.20  | \$61.54              | \$66.59    | \$63.55       | \$52.36                    |
| 2/8/2017   | Sell      | HDP    | \$9.86   | \$9.80               | \$10.41    | \$9.89        | \$12.52                    |
| 2/8/2017   | Sell      | NFLX   | \$144.38 | \$142.56             | \$145.07   | \$144.74      | \$183.60                   |
| 2/8/2017   | Sell      | DDD    | \$16.28  | \$16.17              | \$16.76    | \$16.52       | \$17.60                    |
| 2/6/2017   | Sell      | BIVV   | \$42.80  | \$42.40              | \$43.97    | \$42.83       | \$62.78                    |
| 2/6/2017   | Buy       | JNCE   | \$17.47  | \$16.85              | \$17.55    | \$17.30       | \$13.40                    |
| 2/6/2017   | Sell      | TM     | \$112.96 | \$112.75             | \$114.48   | \$113.31      | \$109.84                   |
| 2/6/2017   | Buy       | QCOM   | \$52.91  | \$52.82              | \$53.41    | \$52.88       | \$53.97                    |
| 2/6/2017   | Sell      | FANUY  | \$19.17  | \$19.16              | \$19.45    | \$19.25       | \$20.12                    |
| 2/6/2017   | Sell      | TER    | \$28.52  | \$28.41              | \$28.87    | \$28.61       | \$35.33                    |
| 2/6/2017   | Buy       | BIDU   | \$177.65 | \$175.15             | \$179.08   | \$177.81      | \$191.32                   |
| 2/6/2017   | Sell      | TSLA   | \$256.03 | \$250.63             | \$257.82   | \$257.77      | \$329.92                   |
| 2/6/2017   | Buy       | BIDU   | \$177.72 | \$175.15             | \$179.08   | \$177.81      | \$191.32                   |
| 2/6/2017   | Sell      | SPLK   | \$60.07  | \$59.73              | \$60.54    | \$60.19       | \$61.56                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 2/6/2017   | Buy       | XLNX   | \$58.08  | \$57.75              | \$58.35    | \$58.23       | \$65.81                    |
| 2/6/2017   | Sell      | NFLX   | \$140.46 | \$139.16             | \$141.00   | \$140.97      | \$183.60                   |
| 2/6/2017   | Buy       | BIDU   | \$177.98 | \$175.15             | \$179.08   | \$177.81      | \$191.32                   |
| 2/3/2017   | Buy       | ATHN   | \$112.00 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$111.39 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.37 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.00 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Sell      | BLUE   | \$78.35  | \$75.15              | \$78.80    | \$78.65       | \$95.80                    |
| 2/3/2017   | Sell      | INCY   | \$120.04 | \$119.62             | \$122.46   | \$120.34      | \$133.79                   |
| 2/3/2017   | Sell      | VCYT   | \$7.40   | \$7.30               | \$7.59     | \$7.56        | \$8.14                     |
| 2/3/2017   | Buy       | ATHN   | \$111.03 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$111.54 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.48 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$113.59 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.00 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Sell      | CRM    | \$80.21  | \$79.81              | \$80.71    | \$80.21       | \$90.54                    |
| 2/3/2017   | Sell      | DDD    | \$16.74  | \$16.73              | \$17.06    | \$16.76       | \$17.60                    |
| 2/3/2017   | Sell      | HDP    | \$9.84   | \$9.72               | \$10.00    | \$9.99        | \$12.52                    |
| 2/3/2017   | Sell      | NFLX   | \$140.21 | \$139.10             | \$140.64   | \$140.25      | \$183.60                   |
| 2/3/2017   | Buy       | ATHN   | \$109.44 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$111.61 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$111.12 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.44 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$113.48 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$112.00 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Buy       | ATHN   | \$109.99 | \$108.67             | \$114.35   | \$108.90      | \$143.80                   |
| 2/3/2017   | Sell      | MELI   | \$189.60 | \$189.04             | \$190.70   | \$190.15      | \$282.08                   |
| 2/3/2017   | Sell      | NFLX   | \$140.33 | \$139.10             | \$140.64   | \$140.25      | \$183.60                   |
| 2/3/2017   | Sell      | SQ     | \$14.38  | \$14.11              | \$14.44    | \$14.28       | \$26.39                    |
| 2/2/2017   | Buy       | MCRB   | \$9.32   | \$9.25               | \$9.59     | \$9.44        | \$13.60                    |
| 2/2/2017   | Sell      | BLUE   | \$76.75  | \$74.10              | \$76.95    | \$76.70       | \$95.80                    |
| 2/2/2017   | Buy       | MLNX   | \$42.84  | \$40.70              | \$45.25    | \$43.95       | \$44.60                    |
| 2/2/2017   | Sell      | NVDA   | \$115.03 | \$112.06             | \$115.74   | \$115.39      | \$167.50                   |
| 2/1/2017   | Buy       | MCRB   | \$9.40   | \$9.29               | \$10.15    | \$9.45        | \$13.60                    |
| 2/1/2017   | Sell      | IONS   | \$44.04  | \$43.71              | \$45.58    | \$44.39       | \$55.86                    |
| 1/31/2017  | Sell      | NOW    | \$89.82  | \$88.95              | \$90.67    | \$90.62       | \$109.84                   |
| 1/31/2017  | Buy       | UA     | \$19.58  | \$18.52              | \$20.08    | \$19.22       | \$19.05                    |
| 1/30/2017  | Sell      | ATHN   | \$124.54 | \$122.70             | \$124.85   | \$124.32      | \$143.80                   |
| 1/30/2017  | Buy       | AGIO   | \$40.08  | \$39.24              | \$41.37    | \$40.51       | \$57.23                    |
| 1/30/2017  | Buy       | PYPL   | \$39.84  | \$39.42              | \$40.27    | \$39.86       | \$59.09                    |
| 1/30/2017  | Sell      | ATHN   | \$124.54 | \$122.70             | \$124.85   | \$124.32      | \$143.80                   |
| 1/30/2017  | Sell      | LC     | \$6.01   | \$5.87               | \$6.14     | \$6.05        | \$5.20                     |
| 1/30/2017  | Buy       | XLNX   | \$59.02  | \$57.80              | \$59.19    | \$59.10       | \$65.81                    |
| 1/30/2017  | Sell      | TSLA   | \$250.60 | \$247.10             | \$255.29   | \$250.63      | \$329.92                   |
| 1/30/2017  | Sell      | NVDA   | \$109.64 | \$107.91             | \$111.01   | \$110.02      | \$167.50                   |
| 1/30/2017  | Buy       | GBTC   | \$107.75 | \$106.50             | \$112.00   | \$107.74      | \$390.05                   |
| 1/30/2017  | Buy       | TWLO   | \$29.05  | \$28.28              | \$29.41    | \$29.01       | \$31.06                    |
| 1/30/2017  | Sell      | SFTBY  | \$38.27  | \$38.11              | \$38.81    | \$38.29       | \$41.45                    |
| 1/30/2017  | Sell      | ATHN   | \$124.54 | \$122.70             | \$124.85   | \$124.32      | \$143.80                   |
| 1/30/2017  | Buy       | XLNX   | \$59.06  | \$57.80              | \$59.19    | \$59.10       | \$65.81                    |
| 1/30/2017  | Sell      | TSLA   | \$250.71 | \$247.10             | \$255.29   | \$250.63      | \$329.92                   |
| 1/30/2017  | Sell      | NVDA   | \$109.68 | \$107.91             | \$111.01   | \$110.02      | \$167.50                   |

| ARK Trades |           |          |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|----------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker   | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 1/26/2017  | Buy       | QCOM     | \$55.25  | \$53.50              | \$55.49    | \$54.05       | \$53.97                    |
| 1/26/2017  | Buy       | QCOM     | \$54.00  | \$53.50              | \$55.49    | \$54.05       | \$53.97                    |
| 1/26/2017  | Sell      | TSLA     | \$252.53 | \$250.75             | \$255.74   | \$252.51      | \$329.92                   |
| 1/26/2017  | Sell      | ATHN     | \$124.10 | \$123.17             | \$124.34   | \$123.85      | \$143.80                   |
| 1/26/2017  | Buy       | QCOM     | \$55.27  | \$53.50              | \$55.49    | \$54.05       | \$53.97                    |
| 1/26/2017  | Buy       | QCOM     | \$54.00  | \$53.50              | \$55.49    | \$54.05       | \$53.97                    |
| 1/26/2017  | Sell      | NOW      | \$89.97  | \$89.41              | \$92.98    | \$89.48       | \$109.84                   |
| 1/26/2017  | Sell      | ATHN     | \$124.06 | \$123.17             | \$124.34   | \$123.85      | \$143.80                   |
| 1/26/2017  | BUY       | ALMDG FP | \$41.64  | \$39.80              | \$43.00    | \$43.00       | \$49.99                    |
| 1/26/2017  | SELL      | VJET US  | \$3.33   | \$3.29               | \$3.50     | \$3.35        | \$4.27                     |
| 1/25/2017  | Buy       | QCOM     | \$56.69  | \$55.50              | \$56.98    | \$56.90       | \$53.97                    |
| 1/25/2017  | Sell      | TSLA     | \$253.08 | \$251.80             | \$258.46   | \$254.47      | \$329.92                   |
| 1/25/2017  | Buy       | QCOM     | \$56.58  | \$55.50              | \$56.98    | \$56.90       | \$53.97                    |
| 1/25/2017  | Sell      | TSLA     | \$252.94 | \$251.80             | \$258.46   | \$254.47      | \$329.92                   |
| 1/25/2017  | Buy       | QCOM     | \$56.60  | \$55.50              | \$56.98    | \$56.90       | \$53.97                    |
| 1/25/2017  | Sell      | TSLA     | \$253.00 | \$251.80             | \$258.46   | \$254.47      | \$329.92                   |
| 1/23/2017  | Buy       | TWTR     | \$16.53  | \$16.46              | \$16.81    | \$16.61       | \$20.53                    |
| 1/23/2017  | Sell      | NVTA     | \$8.47   | \$8.38               | \$9.11     | \$9.07        | \$9.34                     |
| 1/19/2017  | Buy       | BLUE     | \$66.60  | \$65.60              | \$67.65    | \$66.45       | \$95.80                    |
| 1/19/2017  | Sell      | ILMN     | \$160.10 | \$159.10             | \$161.49   | \$160.58      | \$171.97                   |
| 1/19/2017  | Sell      | ATHN     | \$121.24 | \$120.38             | \$122.76   | \$121.50      | \$143.80                   |
| 1/19/2017  | Buy       | BLUE     | \$66.40  | \$65.60              | \$67.65    | \$66.45       | \$95.80                    |
| 1/19/2017  | Sell      | ATHN     | \$121.22 | \$120.38             | \$122.76   | \$121.50      | \$143.80                   |
| 1/19/2017  | Sell      | ILMN     | \$160.28 | \$159.10             | \$161.49   | \$160.58      | \$171.97                   |
| 1/17/2017  | Sell      | ILMN     | \$161.27 | \$158.78             | \$162.05   | \$160.47      | \$171.97                   |
| 1/17/2017  | Buy       | ALNY     | \$38.48  | \$37.98              | \$41.10    | \$38.22       | \$80.51                    |
| 1/17/2017  | Buy       | NSTG     | \$18.17  | \$17.65              | \$18.79    | \$18.02       | \$15.95                    |
| 1/17/2017  | Buy       | CGEN     | \$4.95   | \$4.83               | \$4.98     | \$4.90        | \$3.45                     |
| 1/17/2017  | Buy       | BAYRY    | \$107.80 | \$107.43             | \$107.98   | \$107.98      | \$130.47                   |
| 1/17/2017  | Sell      | ROK      | \$140.22 | \$139.38             | \$141.33   | \$139.64      | \$166.83                   |
| 1/17/2017  | Buy       | BIDU     | \$177.20 | \$174.49             | \$178.28   | \$176.96      | \$191.32                   |
| 1/17/2017  | Sell      | BOX      | \$16.68  | \$16.18              | \$16.92    | \$16.62       | \$19.73                    |
| 1/17/2017  | Buy       | TWLO     | \$28.00  | \$27.75              | \$28.06    | \$27.85       | \$31.06                    |
| 1/17/2017  | Buy       | NSTG     | \$18.15  | \$17.65              | \$18.79    | \$18.02       | \$15.95                    |
| 1/17/2017  | Buy       | CGEN     | \$4.95   | \$4.83               | \$4.98     | \$4.90        | \$3.45                     |
| 1/17/2017  | Buy       | BIDU     | \$177.64 | \$174.49             | \$178.28   | \$176.96      | \$191.32                   |
| 1/17/2017  | Buy       | CERS     | \$4.16   | \$4.13               | \$4.27     | \$4.19        | \$2.21                     |
| 1/17/2017  | Sell      | ILMN     | \$161.56 | \$158.78             | \$162.05   | \$160.47      | \$171.97                   |
| 1/17/2017  | Sell      | ATHN     | \$120.00 | \$118.81             | \$121.21   | \$120.67      | \$143.80                   |
| 1/17/2017  | Buy       | ALNY     | \$38.51  | \$37.98              | \$41.10    | \$38.22       | \$80.51                    |
| 1/13/2017  | Buy       | TWLO     | \$27.60  | \$27.41              | \$28.11    | \$27.96       | \$31.06                    |
| 1/13/2017  | Sell      | NFLX     | \$132.78 | \$130.58             | \$133.93   | \$133.70      | \$183.60                   |
| 1/13/2017  | Sell      | VCYT     | \$7.71   | \$7.49               | \$7.86     | \$7.70        | \$8.14                     |
| 1/13/2017  | Sell      | AVAV     | \$25.79  | \$25.76              | \$26.09    | \$25.86       | \$38.11                    |
| 1/12/2017  | Buy       | NSTG     | \$18.33  | \$17.54              | \$18.89    | \$18.76       | \$15.95                    |
| 1/12/2017  | Sell      | ATHN     | \$122.60 | \$118.23             | \$123.31   | \$123.08      | \$143.80                   |
| 1/12/2017  | Buy       | BLUE     | \$66.50  | \$63.10              | \$67.40    | \$66.20       | \$95.80                    |
| 1/12/2017  | Buy       | NSTG     | \$18.35  | \$17.54              | \$18.89    | \$18.76       | \$15.95                    |
| 1/12/2017  | Sell      | FB       | \$126.55 | \$124.80             | \$126.73   | \$126.62      | \$164.53                   |
| 1/11/2017  | Buy       | GBTC     | \$109.00 | \$112.01             | \$105.00   | \$110.50      | \$390.05                   |
| 1/11/2017  | Buy       | GBTC     | \$109.00 | \$112.01             | \$105.00   | \$110.50      | \$390.05                   |
| 1/9/2017   | Buy       | AGIO     | \$41.99  | \$40.82              | \$48.34    | \$42.78       | \$57.23                    |



| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 1/9/2017   | Sell      | INCY   | \$118.36 | \$112.83             | \$119.89   | \$118.53      | \$133.79                   |
| 1/9/2017   | Buy       | BIDU   | \$178.07 | \$176.82             | \$179.72   | \$177.16      | \$191.32                   |
| 1/9/2017   | Buy       | QCOM   | \$65.82  | \$65.49              | \$66.27    | \$65.65       | \$53.97                    |
| 1/9/2017   | Sell      | DLPH   | \$68.15  | \$68.01              | \$69.39    | \$68.06       | \$93.10                    |
| 1/9/2017   | Buy       | AMZN   | \$798.31 | \$791.77             | \$801.77   | \$796.92      | \$1,028.70                 |
| 1/9/2017   | Sell      | DLPH   | \$68.08  | \$68.01              | \$69.39    | \$68.06       | \$93.10                    |
| 1/9/2017   | Buy       | BIDU   | \$178.08 | \$176.82             | \$179.72   | \$177.16      | \$191.32                   |
| 1/9/2017   | Sell      | NVTA   | \$8.89   | \$8.47               | \$9.15     | \$8.97        | \$9.34                     |
| 1/9/2017   | Buy       | AMZN   | \$797.36 | \$791.77             | \$801.77   | \$796.92      | \$1,028.70                 |
| 1/9/2017   | Sell      | ATHN   | \$117.61 | \$114.36             | \$117.98   | \$116.89      | \$143.80                   |
| 1/9/2017   | Sell      | FB     | \$124.73 | \$123.04             | \$125.43   | \$124.90      | \$164.53                   |
| 1/9/2017   | Buy       | AMZN   | \$797.74 | \$791.77             | \$801.77   | \$796.92      | \$1,028.70                 |
| 1/9/2017   | Sell      | ATHN   | \$117.51 | \$114.36             | \$117.98   | \$116.89      | \$143.80                   |
| 1/9/2017   | Sell      | FB     | \$124.80 | \$123.04             | \$125.43   | \$124.90      | \$164.53                   |
| 1/3/2017   | Buy       | NVDA   | \$101.44 | \$99.38              | \$106.37   | \$102.01      | \$167.50                   |
| 1/3/2017   | Sell      | NVTA   | \$8.60   | \$7.95               | \$8.77     | \$8.75        | \$9.34                     |
| 1/3/2017   | Buy       | NVDA   | \$101.34 | \$99.38              | \$106.37   | \$102.01      | \$167.50                   |
| 1/3/2017   | Sell      | NVTA   | \$8.62   | \$7.95               | \$8.77     | \$8.75        | \$9.34                     |
| 1/3/2017   | Sell      | NFLX   | \$126.97 | \$124.31             | \$128.19   | \$127.49      | \$183.60                   |
| 1/3/2017   | Buy       | TWTR   | \$16.36  | \$16.21              | \$16.45    | \$16.44       | \$20.53                    |
| 1/3/2017   | Buy       | NVDA   | \$101.16 | \$99.38              | \$106.37   | \$102.01      | \$167.50                   |
| 1/3/2017   | Sell      | NFLX   | \$127.06 | \$124.31             | \$128.19   | \$127.49      | \$183.60                   |
| 1/3/2017   | Buy       | NVDA   | \$101.15 | \$99.38              | \$106.37   | \$102.01      | \$167.50                   |
| 1/3/2017   | Sell      | TSLA   | \$216.08 | \$210.96             | \$220.33   | \$216.99      | \$329.92                   |
| 12/29/2016 | Buy       | SSYS   | \$16.77  | \$16.45              | \$17.09    | \$16.67       | \$23.60                    |
| 12/29/2016 | Sell      | ROK    | \$134.70 | \$134.28             | \$135.49   | \$134.85      | \$166.83                   |
| 12/29/2016 | Buy       | SSYS   | \$16.79  | \$16.45              | \$17.09    | \$16.67       | \$23.60                    |
| 12/29/2016 | Buy       | FMI    | \$17.79  | \$17.30              | \$19.45    | \$18.50       | \$38.00                    |
| 12/29/2016 | Sell      | BIIB   | \$286.36 | \$285.23             | \$290.41   | \$287.03      | \$281.44                   |
| 12/29/2016 | Buy       | NTLA   | \$13.26  | \$12.93              | \$13.65    | \$13.27       | \$16.52                    |
| 12/29/2016 | Buy       | FMI    | \$17.75  | \$17.30              | \$19.45    | \$18.50       | \$38.00                    |
| 12/29/2016 | Sell      | VCYT   | \$7.52   | \$7.46               | \$7.68     | \$7.66        | \$8.14                     |
| 12/28/2016 | Buy       | FMI    | \$19.50  | \$18.80              | \$19.90    | \$18.90       | \$38.00                    |
| 12/28/2016 | Sell      | NSTG   | \$22.54  | \$22.02              | \$22.98    | \$22.71       | \$15.95                    |
| 12/28/2016 | Sell      | VCYT   | \$7.50   | \$7.33               | \$7.70     | \$7.41        | \$8.14                     |
| 12/28/2016 | Buy       | FMI    | \$19.50  | \$18.80              | \$19.90    | \$18.90       | \$38.00                    |
| 12/28/2016 | Sell      | NFLX   | \$126.55 | \$125.76             | \$129.07   | \$125.89      | \$183.60                   |
| 12/27/2016 | Buy       | CGEN   | \$5.25   | \$5.15               | \$5.35     | \$5.35        | \$3.45                     |
| 12/27/2016 | Sell      | IONS   | \$55.22  | \$54.52              | \$57.00    | \$55.12       | \$55.86                    |
| 12/27/2016 | Buy       | FANUY  | \$17.19  | \$17.03              | \$17.27    | \$17.12       | \$20.12                    |
| 12/27/2016 | Buy       | QCOM   | \$67.30  | \$67.06              | \$67.58    | \$67.25       | \$53.97                    |
| 12/27/2016 | Buy       | TM     | \$119.65 | \$119.04             | \$119.96   | \$119.39      | \$109.84                   |
| 12/27/2016 | Sell      | NVDA   | \$115.27 | \$111.22             | \$117.36   | \$117.32      | \$167.50                   |
| 12/27/2016 | Buy       | BIDU   | \$164.92 | \$163.07             | \$166.47   | \$164.80      | \$191.32                   |
| 12/27/2016 | Buy       | TWOU   | \$30.75  | \$30.41              | \$30.98    | \$30.55       | \$50.00                    |
| 12/27/2016 | Buy       | XONE   | \$10.02  | \$9.89               | \$10.19    | \$9.98        | \$11.42                    |
| 12/27/2016 | Sell      | TER    | \$25.89  | \$25.68              | \$26.05    | \$25.92       | \$35.33                    |
| 12/27/2016 | Buy       | TWOU   | \$30.70  | \$30.41              | \$30.98    | \$30.55       | \$50.00                    |
| 12/27/2016 | Buy       | CTRP   | \$40.16  | \$39.89              | \$40.62    | \$40.15       | \$57.36                    |
| 12/27/2016 | Buy       | CERS   | \$4.51   | \$4.37               | \$4.70     | \$4.38        | \$2.21                     |
| 12/27/2016 | Buy       | CGEN   | \$5.26   | \$5.15               | \$5.35     | \$5.35        | \$3.45                     |
| 12/27/2016 | Sell      | TSLA   | \$219.99 | \$214.42             | \$222.25   | \$219.53      | \$329.92                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 12/27/2016 | Buy       | HUBS   | \$47.50  | \$45.70              | \$47.90    | \$47.20       | \$73.95                    |
| 12/27/2016 | Buy       | MDSO   | \$51.29  | \$49.87              | \$51.40    | \$50.37       | \$75.78                    |
| 12/27/2016 | Buy       | MELI   | \$159.99 | \$156.10             | \$160.71   | \$158.50      | \$282.08                   |
| 12/27/2016 | Sell      | NVDA   | \$115.79 | \$111.22             | \$117.36   | \$117.32      | \$167.50                   |
| 12/27/2016 | Buy       | TWOU   | \$30.70  | \$30.41              | \$30.98    | \$30.55       | \$50.00                    |
| 12/22/2016 | Buy       | RHT    | \$69.92  | \$68.54              | \$70.95    | \$68.71       | \$98.92                    |
| 12/22/2016 | Buy       | ALNY   | \$39.62  | \$38.94              | \$40.87    | \$39.39       | \$80.51                    |
| 12/22/2016 | Buy       | ATHN   | \$106.24 | \$104.97             | \$108.28   | \$105.37      | \$143.80                   |
| 12/22/2016 | Buy       | CRM    | \$69.85  | \$69.22              | \$70.06    | \$69.90       | \$90.54                    |
| 12/22/2016 | Buy       | FMI    | \$18.95  | \$18.60              | \$19.20    | \$19.00       | \$38.00                    |
| 12/22/2016 | Buy       | PYPL   | \$39.94  | \$39.54              | \$40.09    | \$39.68       | \$59.09                    |
| 12/22/2016 | Buy       | TWTR   | \$16.37  | \$16.27              | \$16.89    | \$16.41       | \$20.53                    |
| 12/22/2016 | Sell      | NFLX   | \$125.60 | \$125.18             | \$127.50   | \$125.58      | \$183.60                   |
| 12/22/2016 | Sell      | NSTG   | \$22.01  | \$21.77              | \$22.70    | \$22.01       | \$15.95                    |
| 12/22/2016 | Sell      | NVDA   | \$107.36 | \$106.53             | \$108.87   | \$107.11      | \$167.50                   |
| 12/22/2016 | Sell      | TER    | \$25.67  | \$25.37              | \$25.94    | \$25.59       | \$35.33                    |
| 12/22/2016 | Sell      | TSLA   | \$208.93 | \$206.50             | \$209.99   | \$208.45      | \$329.92                   |
| 12/22/2016 | Buy       | TCEHY  | \$23.14  | \$23.09              | \$23.38    | \$23.14       | \$38.16                    |
| 12/22/2016 | Buy       | NTDOY  | \$24.68  | \$24.44              | \$25.07    | \$24.61       | \$41.53                    |
| 12/22/2016 | Sell      | SQ     | \$14.04  | \$13.93              | \$14.34    | \$14.05       | \$26.39                    |
| 12/22/2016 | Buy       | RHT    | \$70.16  | \$68.54              | \$70.95    | \$68.71       | \$98.92                    |
| 12/22/2016 | Sell      | NFLX   | \$125.60 | \$125.18             | \$127.50   | \$125.58      | \$183.60                   |
| 12/20/2016 | Buy       | CERS   | \$4.85   | \$4.44               | \$4.88     | \$4.55        | \$2.21                     |
| 12/20/2016 | Sell      | BLUE   | \$66.35  | \$65.90              | \$68.85    | \$67.10       | \$95.80                    |
| 12/16/2016 | Buy       | AGIO   | \$46.87  | \$43.60              | \$47.20    | \$45.07       | \$57.23                    |
| 12/16/2016 | Sell      | ATHN   | \$115.90 | \$112.60             | \$117.55   | \$114.53      | \$143.80                   |
| 12/12/2016 | Buy       | TCEHY  | \$23.88  | \$23.77              | \$23.99    | \$23.82       | \$38.16                    |
| 12/12/2016 | Sell      | NTDOY  | \$32.10  | \$31.83              | \$32.13    | \$32.09       | \$41.53                    |
| 12/12/2016 | Sell      | HDP    | \$8.35   | \$8.25               | \$8.45     | \$8.28        | \$12.52                    |
| 12/12/2016 | Buy       | HUBS   | \$48.75  | \$48.15              | \$50.05    | \$48.95       | \$73.95                    |
| 12/12/2016 | Buy       | MELI   | \$152.73 | \$152.24             | \$158.51   | \$153.68      | \$282.08                   |
| 12/12/2016 | Buy       | TCEHY  | \$23.88  | \$23.77              | \$23.99    | \$23.82       | \$38.16                    |
| 12/12/2016 | Sell      | SCHW   | \$38.91  | \$38.76              | \$39.41    | \$39.03       | \$42.14                    |
| 12/12/2016 | Buy       | TWOU   | \$32.01  | \$31.88              | \$33.12    | \$32.09       | \$50.00                    |
| 12/12/2016 | Sell      | TER    | \$25.63  | \$25.37              | \$26.00    | \$25.58       | \$35.33                    |
| 12/8/2016  | Buy       | ILMN   | \$121.62 | \$120.00             | \$123.92   | \$123.48      | \$171.97                   |
| 12/8/2016  | Sell      | SQ     | \$13.93  | \$13.70              | \$14.17    | \$13.94       | \$26.39                    |
| 12/8/2016  | Sell      | TER    | \$26.20  | \$25.60              | \$26.59    | \$26.25       | \$35.33                    |
| 12/7/2016  | Buy       | AVAV   | \$26.60  | \$25.76              | \$27.64    | \$27.62       | \$38.11                    |
| 12/7/2016  | Sell      | DLPH   | \$70.58  | \$65.75              | \$71.30    | \$70.36       | \$93.10                    |
| 12/7/2016  | Buy       | BLUE   | \$71.80  | \$70.00              | \$75.45    | \$70.50       | \$95.80                    |
| 12/7/2016  | Buy       | IONS   | \$45.60  | \$43.35              | \$46.95    | \$46.00       | \$55.86                    |
| 12/7/2016  | Buy       | CGEN   | \$6.00   | \$5.88               | \$6.10     | \$5.90        | \$3.45                     |
| 12/7/2016  | Buy       | INO    | \$7.11   | \$6.97               | \$7.25     | \$6.97        | \$6.01                     |
| 12/7/2016  | Buy       | ONVO   | \$3.10   | \$3.02               | \$3.13     | \$3.09        | \$2.32                     |
| 12/7/2016  | Sell      | MTD    | \$419.36 | \$408.65             | \$420.98   | \$419.29      | \$610.32                   |
| 12/7/2016  | Buy       | ILMN   | \$122.73 | \$119.37             | \$124.49   | \$122.02      | \$171.97                   |
| 12/7/2016  | Buy       | ATHN   | \$93.49  | \$92.08              | \$94.66    | \$93.05       | \$143.80                   |
| 12/7/2016  | Sell      | JUNO   | \$18.92  | \$18.90              | \$19.73    | \$18.95       | \$29.04                    |
| 12/7/2016  | Sell      | VCYT   | \$7.42   | \$7.25               | \$7.51     | \$7.40        | \$8.14                     |
| 12/7/2016  | Sell      | RHT    | \$79.03  | \$77.10              | \$79.14    | \$78.92       | \$98.92                    |
| 12/7/2016  | Buy       | BLUE   | \$72.20  | \$70.00              | \$75.45    | \$70.50       | \$95.80                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 12/7/2016  | Sell      | ALNY   | \$40.40  | \$39.55              | \$41.25    | \$40.28       | \$80.51                    |
| 12/7/2016  | Buy       | ILMN   | \$122.64 | \$119.37             | \$124.49   | \$122.02      | \$171.97                   |
| 12/7/2016  | Buy       | ATHN   | \$93.49  | \$92.08              | \$94.66    | \$93.05       | \$143.80                   |
| 12/7/2016  | Sell      | JUNO   | \$18.91  | \$18.90              | \$19.73    | \$18.95       | \$29.04                    |
| 12/7/2016  | Sell      | NVDA   | \$95.00  | \$92.10              | \$95.30    | \$95.07       | \$167.50                   |
| 12/2/2016  | Buy       | AMBA   | \$56.30  | \$54.25              | \$58.88    | \$54.47       | \$51.35                    |
| 12/2/2016  | Buy       | TWLO   | \$31.05  | \$30.31              | \$31.74    | \$30.38       | \$31.06                    |
| 12/2/2016  | Sell      | MDSO   | \$52.26  | \$51.80              | \$53.46    | \$51.90       | \$75.78                    |
| 12/2/2016  | Sell      | NTDOY  | \$29.56  | \$29.52              | \$29.87    | \$29.61       | \$41.53                    |
| 12/2/2016  | Sell      | SCHW   | \$38.71  | \$38.46              | \$39.41    | \$38.76       | \$42.14                    |
| 12/2/2016  | Sell      | SQ     | \$12.99  | \$12.93              | \$13.28    | \$13.06       | \$26.39                    |
| 12/2/2016  | Buy       | BIDU   | \$161.57 | \$160.79             | \$163.88   | \$161.67      | \$191.32                   |
| 12/2/2016  | Sell      | DLPH   | \$64.01  | \$63.61              | \$65.87    | \$63.72       | \$93.10                    |
| 12/1/2016  | Buy       | ATHN   | \$92.32  | \$91.46              | \$96.05    | \$92.41       | \$143.80                   |
| 12/1/2016  | Buy       | ILMN   | \$127.96 | \$126.39             | \$133.30   | \$127.72      | \$171.97                   |
| 12/1/2016  | Buy       | INO    | \$6.92   | \$6.79               | \$7.30     | \$6.82        | \$6.01                     |
| 12/1/2016  | Buy       | MCRB   | \$10.20  | \$9.72               | \$10.20    | \$9.94        | \$13.60                    |
| 12/1/2016  | Buy       | ONVO   | \$2.94   | \$2.86               | \$3.03     | \$2.89        | \$2.32                     |
| 12/1/2016  | Sell      | BLUE   | \$70.65  | \$66.40              | \$76.75    | \$68.65       | \$95.80                    |
| 12/1/2016  | Sell      | VCYT   | \$7.44   | \$7.37               | \$7.80     | \$7.71        | \$8.14                     |
| 12/1/2016  | Buy       | SSYS   | \$17.54  | \$17.36              | \$18.27    | \$17.53       | \$23.60                    |
| 12/1/2016  | Buy       | ONVO   | \$2.92   | \$2.86               | \$3.03     | \$2.89        | \$2.32                     |
| 12/1/2016  | Sell      | DLPH   | \$65.36  | \$64.10              | \$65.82    | \$65.63       | \$93.10                    |
| 12/1/2016  | Buy       | ATHN   | \$92.15  | \$91.46              | \$96.05    | \$92.41       | \$143.80                   |
| 12/1/2016  | Buy       | ILMN   | \$127.08 | \$126.39             | \$133.30   | \$127.72      | \$171.97                   |
| 12/1/2016  | Buy       | MCRB   | \$10.09  | \$9.72               | \$10.20    | \$9.94        | \$13.60                    |
| 12/1/2016  | Buy       | ONVO   | \$2.93   | \$2.86               | \$3.03     | \$2.89        | \$2.32                     |
| 12/1/2016  | Buy       | SSYS   | \$17.49  | \$17.36              | \$18.27    | \$17.53       | \$23.60                    |
| 12/1/2016  | Buy       | SPLK   | \$54.07  | \$53.02              | \$58.39    | \$53.33       | \$61.56                    |
| 12/1/2016  | Sell      | BLUE   | \$70.06  | \$66.40              | \$76.75    | \$68.65       | \$95.80                    |
| 12/1/2016  | Sell      | NTDOY  | \$30.32  | \$30.23              | \$30.60    | \$30.29       | \$41.53                    |
| 12/1/2016  | Sell      | MTLS   | \$7.81   | \$7.75               | \$8.16     | \$7.75        | \$13.33                    |
| 12/1/2016  | Sell      | VCYT   | \$7.37   | \$7.37               | \$7.80     | \$7.71        | \$8.14                     |
| 12/1/2016  | Sell      | TCEHY  | \$24.75  | \$24.66              | \$25.07    | \$24.73       | \$38.16                    |
| 11/29/2016 | Buy       | ATHN   | \$96.76  | \$94.06              | \$100.95   | \$94.15       | \$143.80                   |
| 11/29/2016 | Sell      | BLUE   | \$66.10  | \$60.70              | \$67.30    | \$64.40       | \$95.80                    |
| 11/29/2016 | Buy       | ATHN   | \$96.82  | \$94.06              | \$100.95   | \$94.15       | \$143.80                   |
| 11/29/2016 | Sell      | BLUE   | \$65.70  | \$60.70              | \$67.30    | \$64.40       | \$95.80                    |
| 11/29/2016 | Buy       | ATHN   | \$96.80  | \$94.06              | \$100.95   | \$94.15       | \$143.80                   |
| 11/29/2016 | Sell      | SCHW   | \$38.51  | \$38.15              | \$38.65    | \$38.46       | \$42.14                    |
| 11/29/2016 | Sell      | NVDA   | \$94.08  | \$92.53              | \$94.44    | \$93.25       | \$167.50                   |
| 11/28/2016 | Buy       | NSTG   | \$22.03  | \$21.89              | \$22.86    | \$21.97       | \$15.95                    |
| 11/28/2016 | Sell      | NVDA   | \$93.79  | \$93.60              | \$94.74    | \$94.11       | \$167.50                   |
| 11/28/2016 | Buy       | NSTG   | \$22.09  | \$21.89              | \$22.86    | \$21.97       | \$15.95                    |
| 11/28/2016 | Sell      | NVDA   | \$93.79  | \$93.60              | \$94.74    | \$94.11       | \$167.50                   |
| 11/23/2016 | Buy       | BIIB   | \$298.34 | \$293.80             | \$308.88   | \$305.93      | \$281.44                   |
| 11/23/2016 | Buy       | JUNO   | \$21.01  | \$19.41              | \$22.59    | \$22.57       | \$29.04                    |
| 11/23/2016 | Buy       | JUNO   | \$21.19  | \$19.41              | \$22.59    | \$22.57       | \$29.04                    |
| 11/23/2016 | Sell      | AGIO   | \$62.25  | \$59.69              | \$64.17    | \$63.83       | \$57.23                    |
| 11/23/2016 | Sell      | ALNY   | \$46.26  | \$43.34              | \$47.78    | \$47.72       | \$80.51                    |
| 11/23/2016 | Sell      | NSTG   | \$22.46  | \$22.05              | \$23.09    | \$23.05       | \$15.95                    |
| 11/23/2016 | Sell      | IONS   | \$44.33  | \$42.01              | \$45.46    | \$45.42       | \$55.86                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 11/23/2016 | Buy       | BIIB   | \$299.00 | \$293.80             | \$308.88   | \$305.93      | \$281.44                   |
| 11/23/2016 | Buy       | JUNO   | \$20.69  | \$19.41              | \$22.59    | \$22.57       | \$29.04                    |
| 11/23/2016 | Buy       | JUNO   | \$21.32  | \$19.41              | \$22.59    | \$22.57       | \$29.04                    |
| 11/23/2016 | Sell      | TREE   | \$107.09 | \$103.90             | \$107.95   | \$106.55      | \$180.90                   |
| 11/23/2016 | Sell      | NFLX   | \$117.84 | \$117.31             | \$118.89   | \$117.69      | \$183.60                   |
| 11/23/2016 | Sell      | MTLS   | \$8.20   | \$8.06               | \$8.39     | \$8.33        | \$13.33                    |
| 11/23/2016 | Sell      | NVDA   | \$94.18  | \$92.77              | \$95.25    | \$93.94       | \$167.50                   |
| 11/23/2016 | Sell      | FMI    | \$23.13  | \$22.03              | \$24.10    | \$24.00       | \$38.00                    |
| 11/23/2016 | Sell      | ALNY   | \$46.90  | \$43.34              | \$47.78    | \$47.72       | \$80.51                    |
| 11/22/2016 | Buy       | BIDU   | \$166.58 | \$163.56             | \$167.50   | \$164.47      | \$191.32                   |
| 11/22/2016 | Sell      | NVDA   | \$92.88  | \$92.38              | \$93.74    | \$93.65       | \$167.50                   |
| 11/22/2016 | Sell      | TER    | \$24.67  | \$24.62              | \$24.99    | \$24.71       | \$35.33                    |
| 11/21/2016 | Sell      | NXPI   | \$98.71  | \$98.31              | \$99.43    | \$98.59       | \$109.71                   |
| 11/21/2016 | Buy       | FLEX   | \$14.16  | \$13.99              | \$14.18    | \$14.10       | \$16.81                    |
| 11/21/2016 | Buy       | BIDU   | \$165.96 | \$164.50             | \$167.25   | \$165.69      | \$191.32                   |
| 11/21/2016 | Buy       | UA/C   | \$23.94  | \$23.80              | \$24.18    | \$23.80       | #N/A Real Time             |
| 11/21/2016 | Buy       | SPLK   | \$59.52  | \$59.19              | \$60.24    | \$59.55       | \$61.56                    |
| 11/21/2016 | Sell      | NVDA   | \$92.73  | \$92.40              | \$94.35    | \$92.98       | \$167.50                   |
| 11/21/2016 | Sell      | HDP    | \$9.22   | \$9.11               | \$9.37     | \$9.22        | \$12.52                    |
| 11/17/2016 | Buy       | NVTA   | \$6.05   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Buy       | NVTA   | \$5.94   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Buy       | NVTA   | \$6.00   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Sell      | FMI    | \$22.29  | \$22.20              | \$22.90    | \$22.50       | \$38.00                    |
| 11/17/2016 | Sell      | ALNY   | \$45.99  | \$44.42              | \$46.58    | \$46.36       | \$80.51                    |
| 11/17/2016 | Buy       | BIDU   | \$166.80 | \$165.52             | \$168.35   | \$166.21      | \$191.32                   |
| 11/17/2016 | Sell      | NXPI   | \$98.39  | \$97.65              | \$98.57    | \$98.06       | \$109.71                   |
| 11/17/2016 | Buy       | NVTA   | \$6.12   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Buy       | NVTA   | \$5.94   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Buy       | BIDU   | \$166.83 | \$165.52             | \$168.35   | \$166.21      | \$191.32                   |
| 11/17/2016 | Buy       | NVTA   | \$6.00   | \$5.76               | \$6.25     | \$6.01        | \$9.34                     |
| 11/17/2016 | Sell      | NVDA   | \$93.42  | \$90.65              | \$94.79    | \$92.39       | \$167.50                   |
| 11/17/2016 | Sell      | ALNY   | \$45.75  | \$44.42              | \$46.58    | \$46.36       | \$80.51                    |
| 11/17/2016 | Sell      | CERS   | \$5.70   | \$5.65               | \$5.78     | \$5.76        | \$2.21                     |
| 11/17/2016 | Sell      | FMI    | \$22.32  | \$22.20              | \$22.90    | \$22.50       | \$38.00                    |
| 11/17/2016 | Sell      | HDP    | \$9.38   | \$9.14               | \$9.49     | \$9.35        | \$12.52                    |
| 11/17/2016 | Buy       | BIDU   | \$167.10 | \$165.52             | \$168.35   | \$166.21      | \$191.32                   |
| 11/17/2016 | Sell      | AMBA   | \$62.43  | \$61.51              | \$62.97    | \$62.22       | \$51.35                    |
| 11/16/2016 | Buy       | TSLA   | \$183.50 | \$181.21             | \$184.73   | \$183.93      | \$329.92                   |
| 11/16/2016 | Sell      | NVDA   | \$90.85  | \$86.35              | \$92.56    | \$91.63       | \$167.50                   |
| 11/16/2016 | Buy       | TM     | \$112.42 | \$112.37             | \$112.88   | \$112.57      | \$109.84                   |
| 11/16/2016 | Sell      | NXPI   | \$98.06  | \$97.68              | \$98.69    | \$97.83       | \$109.71                   |
| 11/16/2016 | Buy       | TWOU   | \$35.06  | \$34.17              | \$35.38    | \$34.92       | \$50.00                    |
| 11/16/2016 | Buy       | AMZN   | \$744.43 | \$735.61             | \$749.87   | \$746.49      | \$1,028.70                 |
| 11/16/2016 | Buy       | NFLX   | \$115.69 | \$111.81             | \$116.12   | \$115.19      | \$183.60                   |
| 11/16/2016 | Buy       | TSLA   | \$182.86 | \$181.21             | \$184.73   | \$183.93      | \$329.92                   |
| 11/16/2016 | Sell      | TUBE   | \$13.98  | \$13.97              | \$14.00    | \$13.99       | #N/A Real Time             |
| 11/16/2016 | Sell      | NVDA   | \$91.15  | \$86.35              | \$92.56    | \$91.63       | \$167.50                   |
| 11/16/2016 | Buy       | NVTA   | \$6.85   | \$6.76               | \$7.99     | \$6.97        | \$9.34                     |
| 11/16/2016 | Sell      | VCYT   | \$7.20   | \$7.18               | \$7.50     | \$7.31        | \$8.14                     |
| 11/16/2016 | Buy       | NVTA   | \$6.89   | \$6.76               | \$7.99     | \$6.97        | \$9.34                     |
| 11/16/2016 | Sell      | MTLS   | \$7.78   | \$7.14               | \$8.17     | \$8.01        | \$13.33                    |
| 11/15/2016 | Buy       | SSYS   | \$18.90  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 11/15/2016 | Buy       | SSYS   | \$18.60  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$18.40  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$18.00  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$17.62  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Sell      | NKE    | \$50.10  | \$49.75              | \$50.64    | \$50.13       | \$59.10                    |
| 11/15/2016 | Buy       | FLEX   | \$14.14  | \$13.87              | \$14.16    | \$13.95       | \$16.81                    |
| 11/15/2016 | Buy       | SSYS   | \$17.13  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Sell      | OA     | \$85.10  | \$84.47              | \$85.88    | \$85.14       | \$102.40                   |
| 11/15/2016 | Sell      | ROK    | \$133.08 | \$129.69             | \$133.54   | \$133.48      | \$166.83                   |
| 11/15/2016 | Buy       | SSYS   | \$18.90  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$18.60  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$18.40  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$18.00  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Buy       | SSYS   | \$17.69  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Sell      | HDP    | \$9.37   | \$9.05               | \$9.65     | \$9.12        | \$12.52                    |
| 11/15/2016 | Sell      | BLUE   | \$61.90  | \$60.20              | \$64.00    | \$63.60       | \$95.80                    |
| 11/15/2016 | Sell      | VCYT   | \$7.27   | \$7.07               | \$7.46     | \$7.25        | \$8.14                     |
| 11/15/2016 | Sell      | CGEN   | \$6.45   | \$6.45               | \$6.75     | \$6.70        | \$3.45                     |
| 11/15/2016 | Buy       | SSYS   | \$17.14  | \$16.93              | \$19.10    | \$17.95       | \$23.60                    |
| 11/15/2016 | Sell      | BLUE   | \$63.45  | \$60.20              | \$64.00    | \$63.60       | \$95.80                    |
| 11/15/2016 | Sell      | NTLA   | \$18.85  | \$16.14              | \$19.66    | \$18.11       | \$16.52                    |
| 11/14/2016 | Buy       | GBTC   | \$99.00  | \$96.00              | \$101.00   | \$100.00      | \$390.05                   |
| 11/14/2016 | Buy       | BABA   | \$90.80  | \$87.88              | \$92.54    | \$89.77       | \$152.11                   |
| 11/14/2016 | Buy       | SPLK   | \$58.35  | \$57.54              | \$58.98    | \$58.79       | \$61.56                    |
| 11/14/2016 | Sell      | TUBE   | \$13.94  | \$13.93              | \$14.00    | \$13.98       | #N/A Real Time             |
| 11/11/2016 | Buy       | TSLA   | \$184.37 | \$183.00             | \$188.88   | \$188.56      | \$329.92                   |
| 11/11/2016 | Sell      | NVDA   | \$84.25  | \$78.50              | \$88.77    | \$87.97       | \$167.50                   |
| 11/11/2016 | Buy       | TSLA   | \$184.33 | \$183.00             | \$188.88   | \$188.56      | \$329.92                   |
| 11/11/2016 | Sell      | NVDA   | \$84.07  | \$78.50              | \$88.77    | \$87.97       | \$167.50                   |
| 11/11/2016 | Buy       | TSLA   | \$184.61 | \$183.00             | \$188.88   | \$188.56      | \$329.92                   |
| 11/11/2016 | Buy       | MELI   | \$155.08 | \$150.64             | \$161.49   | \$155.96      | \$282.08                   |
| 11/11/2016 | Sell      | NVDA   | \$84.03  | \$78.50              | \$88.77    | \$87.97       | \$167.50                   |
| 11/11/2016 | Sell      | TUBE   | \$13.93  | \$13.92              | \$13.96    | \$13.96       | #N/A Real Time             |
| 11/9/2016  | Buy       | ATHN   | \$99.50  | \$97.70              | \$101.37   | \$101.03      | \$143.80                   |
| 11/9/2016  | Sell      | TMO    | \$152.11 | \$149.45             | \$157.02   | \$152.05      | \$181.55                   |
| 11/9/2016  | Buy       | NTLA   | \$14.40  | \$14.34              | \$15.19    | \$14.40       | \$16.52                    |
| 11/9/2016  | Buy       | TSLA   | \$186.00 | \$183.95             | \$192.00   | \$190.06      | \$329.92                   |
| 11/9/2016  | Buy       | MTLS   | \$6.50   | \$6.35               | \$7.21     | \$6.60        | \$13.33                    |
| 11/9/2016  | Sell      | GOOG   | \$781.60 | \$771.67             | \$791.23   | \$785.31      | \$968.15                   |
| 11/9/2016  | Buy       | TM     | \$111.96 | \$110.35             | \$112.78   | \$111.81      | \$109.84                   |
| 11/9/2016  | Buy       | TSLA   | \$186.00 | \$183.95             | \$192.00   | \$190.06      | \$329.92                   |
| 11/9/2016  | Buy       | MTLS   | \$6.50   | \$6.35               | \$7.21     | \$6.60        | \$13.33                    |
| 11/9/2016  | Buy       | NVTA   | \$7.90   | \$7.76               | \$8.46     | \$8.44        | \$9.34                     |
| 11/9/2016  | Buy       | ATHN   | \$99.94  | \$97.70              | \$101.37   | \$101.03      | \$143.80                   |
| 11/9/2016  | Sell      | NFLX   | \$122.17 | \$120.86             | \$123.65   | \$122.19      | \$183.60                   |
| 11/9/2016  | Sell      | GOOG   | \$782.80 | \$771.67             | \$791.23   | \$785.31      | \$968.15                   |
| 11/9/2016  | Buy       | ILMN   | \$134.15 | \$132.50             | \$145.43   | \$133.13      | \$171.97                   |
| 11/9/2016  | Buy       | TSLA   | \$186.00 | \$183.95             | \$192.00   | \$190.06      | \$329.92                   |
| 11/9/2016  | Buy       | ATHN   | \$100.01 | \$97.70              | \$101.37   | \$101.03      | \$143.80                   |
| 11/9/2016  | Sell      | GOOG   | \$785.33 | \$771.67             | \$791.23   | \$785.31      | \$968.15                   |
| 11/9/2016  | Buy       | TUBE   | \$7.82   | \$7.31               | \$7.89     | \$7.67        | #N/A Real Time             |
| 11/8/2016  | Sell      | AA     | \$24.93  | \$24.30              | \$26.59    | \$26.40       | \$36.72                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 11/8/2016  | Buy       | ARNC   | \$17.45  | \$17.22              | \$17.55    | \$17.41       | \$24.75                    |
| 11/8/2016  | Buy       | FMI    | \$20.04  | \$18.80              | \$20.40    | \$20.10       | \$38.00                    |
| 11/8/2016  | Sell      | NSTG   | \$21.56  | \$20.52              | \$21.68    | \$21.48       | \$15.95                    |
| 11/8/2016  | Buy       | FMI    | \$20.08  | \$18.80              | \$20.40    | \$20.10       | \$38.00                    |
| 11/8/2016  | Sell      | NSTG   | \$21.10  | \$20.52              | \$21.68    | \$21.48       | \$15.95                    |
| 11/8/2016  | Sell      | NTDOY  | \$29.21  | \$29.10              | \$29.34    | \$29.23       | \$41.53                    |
| 11/4/2016  | Buy       | ONVO   | \$2.64   | \$2.50               | \$2.99     | \$2.79        | \$2.32                     |
| 11/4/2016  | Buy       | CSOD   | \$31.83  | \$30.31              | \$32.39    | \$31.55       | \$40.76                    |
| 11/4/2016  | Sell      | FSLR   | \$33.30  | \$32.41              | \$34.40    | \$32.48       | \$46.27                    |
| 11/4/2016  | Sell      | AMBA   | \$58.25  | \$54.30              | \$59.34    | \$57.91       | \$51.35                    |
| 11/4/2016  | Buy       | CSOD   | \$31.89  | \$30.31              | \$32.39    | \$31.55       | \$40.76                    |
| 11/4/2016  | Buy       | CERS   | \$4.43   | \$4.30               | \$5.30     | \$4.81        | \$2.21                     |
| 11/4/2016  | Buy       | ONVO   | \$2.65   | \$2.50               | \$2.99     | \$2.79        | \$2.32                     |
| 11/4/2016  | Buy       | HDP    | \$6.99   | \$6.99               | \$8.12     | \$8.02        | \$12.52                    |
| 11/4/2016  | Sell      | NVDA   | \$67.72  | \$66.58              | \$68.73    | \$67.57       | \$167.50                   |
| 11/4/2016  | Sell      | NVDA   | \$67.74  | \$66.58              | \$68.73    | \$67.57       | \$167.50                   |
| 11/4/2016  | Sell      | NFLX   | \$122.13 | \$121.62             | \$123.43   | \$122.03      | \$183.60                   |
| 11/4/2016  | Buy       | HDP    | \$6.99   | \$6.99               | \$8.12     | \$8.02        | \$12.52                    |
| 11/4/2016  | Buy       | CERS   | \$4.42   | \$4.30               | \$5.30     | \$4.81        | \$2.21                     |
| 11/4/2016  | Buy       | ONVO   | \$2.65   | \$2.50               | \$2.99     | \$2.79        | \$2.32                     |
| 11/4/2016  | Sell      | NVDA   | \$67.74  | \$66.58              | \$68.73    | \$67.57       | \$167.50                   |
| 11/3/2016  | Buy       | BLUE   | \$38.50  | \$37.05              | \$46.05    | \$41.30       | \$95.80                    |
| 11/3/2016  | Sell      | NVDA   | \$67.76  | \$66.64              | \$69.14    | \$67.96       | \$167.50                   |
| 11/3/2016  | Buy       | BLUE   | \$38.83  | \$37.05              | \$46.05    | \$41.30       | \$95.80                    |
| 11/3/2016  | Sell      | NVDA   | \$67.74  | \$66.64              | \$69.14    | \$67.96       | \$167.50                   |
| 11/3/2016  | Sell      | FSLR   | \$34.03  | \$32.90              | \$38.60    | \$34.51       | \$46.27                    |
| 11/3/2016  | Buy       | TSLA   | \$188.90 | \$187.04             | \$191.47   | \$187.42      | \$329.92                   |
| 11/2/2016  | Buy       | ATHN   | \$99.00  | \$98.80              | \$102.75   | \$102.38      | \$143.80                   |
| 11/2/2016  | Sell      | NTDOY  | \$30.26  | \$30.17              | \$30.67    | \$30.25       | \$41.53                    |
| 11/2/2016  | Buy       | VCYT   | \$6.00   | \$5.82               | \$6.48     | \$6.40        | \$8.14                     |
| 11/2/2016  | Buy       | ATHN   | \$99.00  | \$98.80              | \$102.75   | \$102.38      | \$143.80                   |
| 11/2/2016  | Sell      | FMI    | \$21.45  | \$21.25              | \$22.63    | \$21.40       | \$38.00                    |
| 11/2/2016  | Sell      | NSTG   | \$19.15  | \$18.19              | \$19.62    | \$18.39       | \$15.95                    |
| 11/2/2016  | Buy       | VCYT   | \$5.99   | \$5.82               | \$6.48     | \$6.40        | \$8.14                     |
| 11/2/2016  | Buy       | ATHN   | \$99.00  | \$98.80              | \$102.75   | \$102.38      | \$143.80                   |
| 11/2/2016  | Sell      | NVDA   | \$68.91  | \$68.64              | \$70.52    | \$68.76       | \$167.50                   |
| 11/2/2016  | Sell      | NTDOY  | \$30.30  | \$30.17              | \$30.67    | \$30.25       | \$41.53                    |
| 11/1/2016  | Buy       | BIIB   | \$280.97 | \$279.53             | \$285.18   | \$282.56      | \$281.44                   |
| 11/1/2016  | Buy       | INO    | \$6.51   | \$6.40               | \$6.65     | \$6.59        | \$6.01                     |
| 11/1/2016  | Sell      | TMO    | \$145.98 | \$144.34             | \$148.00   | \$146.02      | \$181.55                   |
| 11/1/2016  | Sell      | FMI    | \$22.45  | \$22.20              | \$22.70    | \$22.50       | \$38.00                    |
| 11/1/2016  | Sell      | VLKAY  | \$29.78  | \$29.29              | \$29.84    | \$29.34       | \$33.71                    |
| 11/1/2016  | Buy       | TM     | \$115.60 | \$114.18             | \$115.76   | \$114.73      | \$109.84                   |
| 11/1/2016  | Buy       | TSLA   | \$192.54 | \$188.11             | \$198.50   | \$190.79      | \$329.92                   |
| 11/1/2016  | Buy       | TSLA   | \$192.42 | \$188.11             | \$198.50   | \$190.79      | \$329.92                   |
| 11/1/2016  | Sell      | NFLX   | \$122.50 | \$121.80             | \$125.83   | \$123.30      | \$183.60                   |
| 11/1/2016  | Sell      | FB     | \$129.12 | \$128.65             | \$131.94   | \$129.50      | \$164.53                   |
| 11/1/2016  | Buy       | TSLA   | \$192.18 | \$188.11             | \$198.50   | \$190.79      | \$329.92                   |
| 11/1/2016  | Sell      | NFLX   | \$122.54 | \$121.80             | \$125.83   | \$123.30      | \$183.60                   |
| 11/1/2016  | Sell      | FB     | \$129.04 | \$128.65             | \$131.94   | \$129.50      | \$164.53                   |
| 10/31/2016 | Buy       | TWLO   | \$34.52  | \$33.75              | \$36.25    | \$34.12       | \$31.06                    |
| 10/31/2016 | Sell      | NOW    | \$87.53  | \$85.89              | \$88.04    | \$87.91       | \$109.84                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 10/28/2016 | Buy       | AMZN   | \$778.46 | \$774.61             | \$789.49   | \$775.88      | \$1,028.70                 |
| 10/28/2016 | Sell      | NXPI   | \$99.88  | \$99.20              | \$100.26   | \$99.78       | \$109.71                   |
| 10/28/2016 | Buy       | AMZN   | \$777.71 | \$774.61             | \$789.49   | \$775.88      | \$1,028.70                 |
| 10/28/2016 | Buy       | BIDU   | \$181.00 | \$179.27             | \$185.20   | \$179.59      | \$191.32                   |
| 10/28/2016 | Buy       | ATHN   | \$104.19 | \$100.01             | \$104.42   | \$103.01      | \$143.80                   |
| 10/28/2016 | Sell      | NFLX   | \$127.16 | \$126.01             | \$128.93   | \$126.57      | \$183.60                   |
| 10/28/2016 | Sell      | NVDA   | \$70.93  | \$70.43              | \$72.10    | \$70.56       | \$167.50                   |
| 10/28/2016 | Sell      | CRM    | \$75.05  | \$74.82              | \$75.50    | \$75.13       | \$90.54                    |
| 10/28/2016 | Sell      | SCHW   | \$32.01  | \$31.54              | \$32.44    | \$31.89       | \$42.14                    |
| 10/28/2016 | Sell      | RHT    | \$77.34  | \$76.87              | \$77.94    | \$77.11       | \$98.92                    |
| 10/28/2016 | Buy       | AMZN   | \$781.50 | \$774.61             | \$789.49   | \$775.88      | \$1,028.70                 |
| 10/28/2016 | Buy       | BIDU   | \$181.39 | \$179.27             | \$185.20   | \$179.59      | \$191.32                   |
| 10/28/2016 | Sell      | NXPI   | \$99.84  | \$99.20              | \$100.26   | \$99.78       | \$109.71                   |
| 10/28/2016 | Buy       | ATHN   | \$104.00 | \$100.01             | \$104.42   | \$103.01      | \$143.80                   |
| 10/28/2016 | Sell      | AKAM   | \$69.62  | \$68.47              | \$70.10    | \$69.91       | \$52.36                    |
| 10/28/2016 | Sell      | NFLX   | \$127.17 | \$126.01             | \$128.93   | \$126.57      | \$183.60                   |
| 10/28/2016 | Sell      | NOW    | \$86.26  | \$84.58              | \$87.39    | \$86.12       | \$109.84                   |
| 10/28/2016 | Sell      | CTRP   | \$45.09  | \$44.51              | \$46.20    | \$44.73       | \$57.36                    |
| 10/28/2016 | Sell      | NVDA   | \$70.94  | \$70.43              | \$72.10    | \$70.56       | \$167.50                   |
| 10/28/2016 | Sell      | SCHW   | \$32.08  | \$31.54              | \$32.44    | \$31.89       | \$42.14                    |
| 10/28/2016 | Sell      | TWOU   | \$35.58  | \$34.78              | \$35.86    | \$35.03       | \$50.00                    |
| 10/28/2016 | Buy       | ATHN   | \$104.05 | \$100.01             | \$104.42   | \$103.01      | \$143.80                   |
| 10/27/2016 | Buy       | PRLB   | \$47.27  | \$45.75              | \$49.20    | \$46.85       | \$70.60                    |
| 10/27/2016 | Sell      | DLPH   | \$64.28  | \$63.04              | \$64.51    | \$64.45       | \$93.10                    |
| 10/27/2016 | Buy       | TSLA   | \$204.75 | \$201.65             | \$213.70   | \$204.01      | \$329.92                   |
| 10/27/2016 | Sell      | DLPH   | \$64.03  | \$63.04              | \$64.51    | \$64.45       | \$93.10                    |
| 10/27/2016 | Buy       | PRLB   | \$47.23  | \$45.75              | \$49.20    | \$46.85       | \$70.60                    |
| 10/27/2016 | Buy       | TREE   | \$77.85  | \$75.05              | \$79.93    | \$77.07       | \$180.90                   |
| 10/27/2016 | Sell      | DLPH   | \$64.25  | \$63.04              | \$64.51    | \$64.45       | \$93.10                    |
| 10/27/2016 | Buy       | TSLA   | \$204.75 | \$201.65             | \$213.70   | \$204.01      | \$329.92                   |
| 10/27/2016 | Sell      | DLPH   | \$64.10  | \$63.04              | \$64.51    | \$64.45       | \$93.10                    |
| 10/27/2016 | Buy       | TWTR   | \$17.66  | \$17.07              | \$18.12    | \$17.40       | \$20.53                    |
| 10/27/2016 | Buy       | PYPL   | \$42.14  | \$41.62              | \$42.57    | \$41.69       | \$59.09                    |
| 10/27/2016 | Buy       | TREE   | \$77.70  | \$75.05              | \$79.93    | \$77.07       | \$180.90                   |
| 10/27/2016 | Sell      | NXPI   | \$99.47  | \$98.74              | \$100.70   | \$99.08       | \$109.71                   |
| 10/27/2016 | Sell      | GOE FP | \$19.75  | \$19.73              | \$20.10    | \$19.73       | \$22.80                    |
| 10/27/2016 | Buy       | UPS    | \$107.64 | \$105.87             | \$109.25   | \$108.08      | \$112.58                   |
| 10/26/2016 | Buy       | ATHN   | \$105.98 | \$104.00             | \$107.02   | \$105.85      | \$143.80                   |
| 10/26/2016 | Sell      | NVZMY  | \$37.25  | \$36.81              | \$37.64    | \$37.14       | \$45.52                    |
| 10/26/2016 | Buy       | ATHN   | \$105.95 | \$104.00             | \$107.02   | \$105.85      | \$143.80                   |
| 10/26/2016 | Sell      | NFLX   | \$127.62 | \$125.75             | \$128.72   | \$126.99      | \$183.60                   |
| 10/26/2016 | Buy       | PRLB   | \$51.99  | \$51.05              | \$52.35    | \$51.45       | \$70.60                    |
| 10/26/2016 | Sell      | TER    | \$21.96  | \$21.78              | \$22.11    | \$22.02       | \$35.33                    |
| 10/26/2016 | Buy       | ATHN   | \$105.80 | \$104.00             | \$107.02   | \$105.85      | \$143.80                   |
| 10/26/2016 | Sell      | NXPI   | \$100.35 | \$97.87              | \$101.15   | \$98.66       | \$109.71                   |
| 10/26/2016 | Buy       | PRLB   | \$52.00  | \$51.05              | \$52.35    | \$51.45       | \$70.60                    |
| 10/26/2016 | Sell      | TER    | \$21.96  | \$21.78              | \$22.11    | \$22.02       | \$35.33                    |
| 10/25/2016 | Buy       | UA/C   | \$27.61  | \$27.58              | \$28.74    | \$28.37       | #N/A Real Time             |
| 10/25/2016 | Sell      | NXPI   | \$100.67 | \$100.50             | \$101.65   | \$100.64      | \$109.71                   |
| 10/25/2016 | Sell      | ONVO   | \$2.87   | \$2.87               | \$2.95     | \$2.88        | \$2.32                     |
| 10/25/2016 | Buy       | DDD    | \$13.98  | \$13.85              | \$14.34    | \$13.91       | \$17.60                    |
| 10/25/2016 | Sell      | VJET   | \$4.40   | \$4.36               | \$4.50     | \$4.41        | \$4.27                     |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 10/25/2016 | Buy       | GE     | \$28.76  | \$28.62              | \$29.01    | \$28.65       | \$26.69                    |
| 10/24/2016 | Sell      | DDD    | \$14.10  | \$13.82              | \$14.23    | \$14.11       | \$17.60                    |
| 10/24/2016 | Sell      | KTWO   | \$18.96  | \$18.74              | \$19.28    | \$18.92       | \$25.00                    |
| 10/24/2016 | Sell      | MSFT   | \$60.40  | \$59.93              | \$61.00    | \$61.00       | \$74.22                    |
| 10/24/2016 | Sell      | VJET   | \$4.51   | \$4.40               | \$4.63     | \$4.44        | \$4.27                     |
| 10/24/2016 | Sell      | XONE   | \$12.33  | \$12.30              | \$12.71    | \$12.42       | \$11.42                    |
| 10/24/2016 | Buy       | GE     | \$28.98  | \$28.90              | \$29.21    | \$28.92       | \$26.69                    |
| 10/24/2016 | Buy       | TSLA   | \$203.24 | \$200.25             | \$203.95   | \$202.76      | \$329.92                   |
| 10/24/2016 | Buy       | SSYS   | \$20.07  | \$19.97              | \$20.33    | \$20.06       | \$23.60                    |
| 10/24/2016 | Sell      | NXPI   | \$101.56 | \$100.51             | \$102.00   | \$101.84      | \$109.71                   |
| 10/21/2016 | Buy       | ATHN   | \$118.99 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$115.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | PYPL   | \$41.98  | \$41.84              | \$44.24    | \$44.15       | \$59.09                    |
| 10/21/2016 | Buy       | ATHN   | \$112.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | NTDOY  | \$30.45  | \$30.33              | \$30.70    | \$30.47       | \$41.53                    |
| 10/21/2016 | Buy       | PYPL   | \$43.02  | \$41.84              | \$44.24    | \$44.15       | \$59.09                    |
| 10/21/2016 | Buy       | ATHN   | \$112.25 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$112.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Sell      | NXPI   | \$101.26 | \$100.80             | \$105.56   | \$101.71      | \$109.71                   |
| 10/21/2016 | Sell      | SQ     | \$11.18  | \$11.04              | \$11.34    | \$11.32       | \$26.39                    |
| 10/21/2016 | Sell      | LC     | \$4.87   | \$4.78               | \$4.97     | \$4.85        | \$5.20                     |
| 10/21/2016 | Sell      | FMI    | \$23.75  | \$23.10              | \$23.90    | \$23.55       | \$38.00                    |
| 10/21/2016 | Sell      | TWTR   | \$16.98  | \$16.74              | \$18.35    | \$18.09       | \$20.53                    |
| 10/21/2016 | Sell      | NFLX   | \$123.39 | \$122.31             | \$127.85   | \$127.50      | \$183.60                   |
| 10/21/2016 | Buy       | ATHN   | \$118.72 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$115.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | PYPL   | \$41.98  | \$41.84              | \$44.24    | \$44.15       | \$59.09                    |
| 10/21/2016 | Buy       | ATHN   | \$112.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | NTDOY  | \$30.44  | \$30.33              | \$30.70    | \$30.47       | \$41.53                    |
| 10/21/2016 | Buy       | PYPL   | \$43.01  | \$41.84              | \$44.24    | \$44.15       | \$59.09                    |
| 10/21/2016 | Buy       | ATHN   | \$112.25 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$112.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Sell      | NXPI   | \$101.20 | \$100.80             | \$105.56   | \$101.71      | \$109.71                   |
| 10/21/2016 | Sell      | TWTR   | \$16.98  | \$16.74              | \$18.35    | \$18.09       | \$20.53                    |
| 10/21/2016 | Buy       | ATHN   | \$119.19 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$115.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Buy       | ATHN   | \$112.00 | \$110.00             | \$115.00   | \$112.57      | \$143.80                   |
| 10/21/2016 | Sell      | FMI    | \$23.60  | \$23.10              | \$23.90    | \$23.55       | \$38.00                    |
| 10/21/2016 | Sell      | VCYT   | \$8.12   | \$8.05               | \$8.26     | \$8.12        | \$8.14                     |
| 10/20/2016 | Buy       | ONVO   | \$2.94   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Buy       | ONVO   | \$2.75   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Sell      | XLNX   | \$49.63  | \$49.31              | \$50.45    | \$50.09       | \$65.81                    |
| 10/20/2016 | Buy       | ONVO   | \$2.94   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Buy       | ONVO   | \$2.75   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Sell      | VCYT   | \$8.10   | \$7.95               | \$8.45     | \$8.13        | \$8.14                     |
| 10/20/2016 | Buy       | ONVO   | \$2.94   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Buy       | ONVO   | \$2.75   | \$2.76               | \$2.96     | \$2.96        | \$2.32                     |
| 10/20/2016 | Buy       | NVDA   | \$67.12  | \$66.30              | \$67.95    | \$67.73       | \$167.50                   |
| 10/20/2016 | Sell      | NFLX   | \$122.79 | \$121.06             | \$123.75   | \$123.35      | \$183.60                   |
| 10/20/2016 | Sell      | VCYT   | \$8.01   | \$7.95               | \$8.45     | \$8.13        | \$8.14                     |
| 10/20/2016 | Sell      | MTLS   | \$7.83   | \$7.76               | \$7.98     | \$7.97        | \$13.33                    |
| 10/19/2016 | Buy       | TSLA   | \$199.95 | \$198.06             | \$206.66   | \$203.56      | \$329.92                   |



| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 10/19/2016 | Sell      | AMBA   | \$64.24  | \$63.52              | \$64.87    | \$63.59       | \$51.35                       |
| 10/19/2016 | Buy       | TM     | \$115.13 | \$114.89             | \$115.38   | \$114.89      | \$109.84                      |
| 10/19/2016 | Buy       | BIDU   | \$175.73 | \$174.70             | \$177.50   | \$176.20      | \$191.32                      |
| 10/19/2016 | Sell      | NXPI   | \$101.32 | \$100.88             | \$101.65   | \$101.03      | \$109.71                      |
| 10/19/2016 | Buy       | TSLA   | \$199.96 | \$198.06             | \$206.66   | \$203.56      | \$329.92                      |
| 10/19/2016 | Sell      | NFLX   | \$121.32 | \$118.00             | \$122.45   | \$121.87      | \$183.60                      |
| 10/19/2016 | Buy       | NTLA   | \$12.25  | \$11.90              | \$12.89    | \$12.61       | \$16.52                       |
| 10/19/2016 | Buy       | ONVO   | \$3.53   | \$3.46               | \$3.55     | \$3.49        | \$2.32                        |
| 10/19/2016 | Buy       | KITE   | \$48.43  | \$45.87              | \$50.04    | \$45.92       | \$109.89                      |
| 10/19/2016 | Buy       | BLUE   | \$53.60  | \$52.45              | \$54.90    | \$52.75       | \$95.80                       |
| 10/19/2016 | Sell      | BIIB   | \$294.25 | \$292.49             | \$296.54   | \$295.14      | \$281.44                      |
| 10/18/2016 | Buy       | NSTG   | \$19.96  | \$19.74              | \$20.23    | \$20.13       | \$15.95                       |
| 10/18/2016 | Sell      | FMI    | \$22.50  | \$22.20              | \$22.65    | \$22.65       | \$38.00                       |
| 10/18/2016 | Buy       | XLNX   | \$50.00  | \$49.82              | \$50.46    | \$50.13       | \$65.81                       |
| 10/18/2016 | Sell      | AMBA   | \$63.63  | \$62.96              | \$65.40    | \$64.36       | \$51.35                       |
| 10/18/2016 | Buy       | NVTA   | \$7.60   | \$7.52               | \$7.82     | \$7.68        | \$9.34                        |
| 10/18/2016 | Sell      | EVGN   | \$6.17   | \$6.17               | \$6.21     | \$6.17        | \$5.27                        |
| 10/14/2016 | Buy       | BLUE   | \$63.43  | \$56.53              | \$63.87    | \$56.57       | \$95.80                       |
| 10/14/2016 | Buy       | BLUE   | \$58.42  | \$56.53              | \$63.87    | \$56.57       | \$95.80                       |
| 10/14/2016 | Sell      | TER    | \$21.19  | \$21.10              | \$21.31    | \$21.20       | \$35.33                       |
| 10/14/2016 | Sell      | FB     | \$127.71 | \$127.58             | \$128.95   | \$127.91      | \$164.53                      |
| 10/14/2016 | Sell      | NXPI   | \$101.29 | \$101.13             | \$103.09   | \$101.40      | \$109.71                      |
| 10/14/2016 | Buy       | HDP    | \$6.94   | \$6.81               | \$7.17     | \$6.92        | \$12.52                       |
| 10/14/2016 | Sell      | SCHW   | \$31.93  | \$31.65              | \$32.21    | \$31.97       | \$42.14                       |
| 10/14/2016 | Buy       | HDP    | \$6.96   | \$6.81               | \$7.17     | \$6.92        | \$12.52                       |
| 10/13/2016 | Buy       | NTLA   | \$12.74  | \$12.40              | \$14.35    | \$13.57       | \$16.52                       |
| 10/13/2016 | Sell      | AGIO   | \$50.93  | \$49.13              | \$51.97    | \$50.72       | \$57.23                       |
| 10/13/2016 | Sell      | INO    | \$8.79   | \$8.70               | \$8.94     | \$8.75        | \$6.01                        |
| 10/13/2016 | Buy       | SSYS   | \$21.65  | \$20.83              | \$21.82    | \$21.23       | \$23.60                       |
| 10/13/2016 | Sell      | TRMB   | \$28.24  | \$27.63              | \$28.45    | \$28.42       | \$37.55                       |
| 10/13/2016 | Sell      | XONE   | \$13.63  | \$13.49              | \$13.94    | \$13.54       | \$11.42                       |
| 10/13/2016 | Buy       | NTLA   | \$12.75  | \$12.40              | \$14.35    | \$13.57       | \$16.52                       |
| 10/13/2016 | Buy       | SSYS   | \$21.65  | \$20.83              | \$21.82    | \$21.23       | \$23.60                       |
| 10/13/2016 | Buy       | HDP    | \$7.16   | \$6.97               | \$7.25     | \$7.17        | \$12.52                       |
| 10/13/2016 | Sell      | MTLS   | \$7.47   | \$7.39               | \$7.70     | \$7.39        | \$13.33                       |
| 10/13/2016 | Sell      | TWOU   | \$35.56  | \$35.18              | \$37.95    | \$35.52       | \$50.00                       |
| 10/13/2016 | Sell      | NXPI   | \$101.40 | \$100.30             | \$102.00   | \$101.84      | \$109.71                      |
| 10/13/2016 | Buy       | HDP    | \$7.16   | \$6.97               | \$7.25     | \$7.17        | \$12.52                       |
| 10/13/2016 | Sell      | NXPI   | \$101.39 | \$100.30             | \$102.00   | \$101.84      | \$109.71                      |
| 10/12/2016 | Buy       | ILMN   | \$136.00 | \$136.00             | \$141.44   | \$136.18      | \$171.97                      |
| 10/12/2016 | Sell      | NXPI   | \$102.50 | \$100.75             | \$103.20   | \$102.74      | \$109.71                      |
| 10/11/2016 | Buy       | ILMN   | \$134.28 | \$133.80             | \$140.89   | \$138.99      | \$171.97                      |
| 10/11/2016 | Buy       | ILMN   | \$139.96 | \$133.80             | \$140.89   | \$138.99      | \$171.97                      |
| 10/11/2016 | Sell      | AGIO   | \$53.25  | \$52.64              | \$55.52    | \$53.26       | \$57.23                       |
| 10/11/2016 | Sell      | BLUE   | \$70.07  | \$68.74              | \$74.71    | \$70.05       | \$95.80                       |
| 10/11/2016 | Sell      | NSTG   | \$21.20  | \$20.73              | \$22.01    | \$21.13       | \$15.95                       |
| 10/11/2016 | Sell      | TMO    | \$154.24 | \$153.79             | \$156.59   | \$154.90      | \$181.55                      |
| 10/11/2016 | Buy       | ILMN   | \$134.49 | \$133.80             | \$140.89   | \$138.99      | \$171.97                      |
| 10/11/2016 | Buy       | ILMN   | \$140.00 | \$133.80             | \$140.89   | \$138.99      | \$171.97                      |
| 10/11/2016 | Sell      | TUBE   | \$8.47   | \$8.44               | \$8.99     | \$8.56        | #N/A Real Time                |
| 10/11/2016 | Sell      | ATHN   | \$126.32 | \$125.85             | \$129.70   | \$126.93      | \$143.80                      |
| 10/10/2016 | Buy       | TWTR   | \$17.42  | \$16.93              | \$18.24    | \$17.56       | \$20.53                       |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 10/10/2016 | Sell      | NXPI   | \$102.51 | \$102.05             | \$103.71   | \$102.83      | \$109.71                      |
| 10/10/2016 | Sell      | CRM    | \$75.33  | \$73.58              | \$75.73    | \$75.10       | \$90.54                       |
| 10/10/2016 | Buy       | TWTR   | \$17.42  | \$16.93              | \$18.24    | \$17.56       | \$20.53                       |
| 10/10/2016 | Buy       | NTLA   | \$14.99  | \$14.29              | \$15.72    | \$14.44       | \$16.52                       |
| 10/10/2016 | Sell      | ILMN   | \$184.77 | \$184.28             | \$186.71   | \$184.85      | \$171.97                      |
| 10/10/2016 | Sell      | NXPI   | \$102.46 | \$102.05             | \$103.71   | \$102.83      | \$109.71                      |
| 10/10/2016 | Buy       | JUNO   | \$29.38  | \$29.13              | \$30.14    | \$30.05       | \$29.04                       |
| 10/10/2016 | Buy       | MCRB   | \$11.66  | \$11.54              | \$11.96    | \$11.82       | \$13.60                       |
| 10/10/2016 | Buy       | ATHN   | \$132.30 | \$128.70             | \$132.84   | \$129.96      | \$143.80                      |
| 10/10/2016 | Buy       | NTLA   | \$15.25  | \$14.29              | \$15.72    | \$14.44       | \$16.52                       |
| 10/10/2016 | Buy       | INCY   | \$98.53  | \$95.94              | \$99.48    | \$95.95       | \$133.79                      |
| 10/10/2016 | Sell      | BMJ    | \$50.62  | \$49.54              | \$51.30    | \$49.81       | \$55.44                       |
| 10/10/2016 | Sell      | XONE   | \$14.90  | \$14.69              | \$15.21    | \$14.89       | \$11.42                       |
| 10/7/2016  | Buy       | ALNY   | \$34.43  | \$36.24              | \$33.16    | \$36.21       | \$80.51                       |
| 10/7/2016  | Sell      | DDD    | \$17.56  | \$18.18              | \$17.44    | \$18.18       | \$17.60                       |
| 10/7/2016  | Buy       | ALNY   | \$34.52  | \$36.24              | \$33.16    | \$36.21       | \$80.51                       |
| 10/7/2016  | Sell      | NVDA   | \$66.86  | \$67.97              | \$66.66    | \$67.34       | \$167.50                      |
| 10/7/2016  | Sell      | VCYT   | \$7.64   | \$7.81               | \$7.59     | \$7.74        | \$8.14                        |
| 10/6/2016  | Buy       | TWTR   | \$20.25  | \$19.60              | \$21.00    | \$19.87       | \$20.53                       |
| 10/6/2016  | Sell      | TCEHY  | \$27.94  | \$27.86              | \$28.09    | \$27.93       | \$38.16                       |
| 10/6/2016  | Buy       | ALNY   | \$39.64  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Buy       | ALNY   | \$36.89  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Buy       | ALNY   | \$37.15  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Sell      | VCYT   | \$7.70   | \$7.65               | \$7.87     | \$7.74        | \$8.14                        |
| 10/6/2016  | Sell      | FPRX   | \$52.31  | \$51.90              | \$53.41    | \$52.32       | \$29.01                       |
| 10/6/2016  | Sell      | MDSO   | \$55.58  | \$54.89              | \$56.10    | \$55.48       | \$75.78                       |
| 10/6/2016  | Sell      | MTD    | \$417.54 | \$413.29             | \$418.94   | \$418.82      | \$610.32                      |
| 10/6/2016  | Sell      | EVGN   | \$6.45   | \$6.40               | \$6.50     | \$6.45        | \$5.27                        |
| 10/6/2016  | Sell      | AVXL   | \$3.62   | \$3.56               | \$3.80     | \$3.59        | \$4.87                        |
| 10/6/2016  | Buy       | ALNY   | \$36.67  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Buy       | MCRB   | \$11.40  | \$11.30              | \$11.99    | \$11.41       | \$13.60                       |
| 10/6/2016  | Buy       | ALNY   | \$39.65  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Buy       | ALNY   | \$36.99  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Buy       | TWTR   | \$20.25  | \$19.60              | \$21.00    | \$19.87       | \$20.53                       |
| 10/6/2016  | Buy       | ALNY   | \$37.04  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/6/2016  | Sell      | VCYT   | \$7.70   | \$7.65               | \$7.87     | \$7.74        | \$8.14                        |
| 10/6/2016  | Sell      | NXPI   | \$101.50 | \$100.82             | \$105.29   | \$103.49      | \$109.71                      |
| 10/6/2016  | Sell      | NVDA   | \$67.09  | \$66.26              | \$67.83    | \$67.34       | \$167.50                      |
| 10/6/2016  | Sell      | NSTG   | \$21.13  | \$19.86              | \$21.23    | \$21.11       | \$15.95                       |
| 10/6/2016  | Buy       | ALNY   | \$36.54  | \$35.32              | \$38.92    | \$36.21       | \$80.51                       |
| 10/5/2016  | Buy       | ONVO   | \$4.06   | \$4.14               | \$3.92     | \$3.97        | \$2.32                        |
| 10/5/2016  | Sell      | ILMN   | \$185.55 | \$186.60             | \$182.17   | \$186.17      | \$171.97                      |
| 10/5/2016  | Sell      | MTLS   | \$8.40   | \$8.48               | \$8.27     | \$8.47        | \$13.33                       |
| 10/5/2016  | Buy       | ONVO   | \$4.06   | \$4.14               | \$3.92     | \$3.97        | \$2.32                        |
| 10/5/2016  | Sell      | NVDA   | \$68.39  | \$69.58              | \$68.02    | \$68.23       | \$167.50                      |
| 10/5/2016  | Buy       | ONVO   | \$4.06   | \$4.14               | \$3.92     | \$3.97        | \$2.32                        |
| 10/5/2016  | Buy       | FANUY  | \$28.49  | \$28.56              | \$28.11    | \$28.44       | \$20.12                       |
| 10/5/2016  | Sell      | NKE    | \$52.52  | \$52.64              | \$52.10    | \$52.12       | \$59.10                       |
| 10/5/2016  | Sell      | AMBA   | \$73.64  | \$73.85              | \$72.54    | \$72.54       | \$51.35                       |
| 10/3/2016  | Buy       | FLEX   | \$13.61  | \$13.53              | \$13.70    | \$13.57       | \$16.81                       |
| 10/3/2016  | Sell      | NVDA   | \$68.53  | \$68.33              | \$69.51    | \$68.45       | \$167.50                      |
| 10/3/2016  | Buy       | ONVO   | \$3.78   | \$3.76               | \$3.87     | \$3.80        | \$2.32                        |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 10/3/2016  | Sell      | TER    | \$21.64  | \$21.46              | \$21.73    | \$21.47       | \$35.33                    |
| 9/30/2016  | Buy       | REGN   | \$394.22 | \$390.56             | \$404.98   | \$402.02      | \$521.13                   |
| 9/30/2016  | Sell      | NSTG   | \$19.65  | \$19.30              | \$20.28    | \$19.98       | \$15.95                    |
| 9/30/2016  | Sell      | AGIO   | \$53.08  | \$51.89              | \$53.43    | \$52.82       | \$57.23                    |
| 9/30/2016  | Sell      | FMI    | \$23.07  | \$22.51              | \$23.52    | \$23.35       | \$38.00                    |
| 9/30/2016  | Buy       | NTLA   | \$16.90  | \$16.75              | \$17.20    | \$17.02       | \$16.52                    |
| 9/30/2016  | Sell      | VCYT   | \$7.41   | \$7.31               | \$7.67     | \$7.61        | \$8.14                     |
| 9/29/2016  | Sell      | NTRA   | \$10.69  | \$10.40              | \$10.92    | \$10.65       | \$9.75                     |
| 9/29/2016  | Buy       | NTLA   | \$17.08  | \$16.75              | \$18.50    | \$17.00       | \$16.52                    |
| 9/29/2016  | Buy       | CGEN   | \$6.36   | \$6.30               | \$6.51     | \$6.35        | \$3.45                     |
| 9/29/2016  | Buy       | ALNY   | \$70.07  | \$69.77              | \$75.35    | \$69.94       | \$80.51                    |
| 9/29/2016  | Sell      | MCRB   | \$12.80  | \$12.64              | \$13.47    | \$12.68       | \$13.60                    |
| 9/29/2016  | Sell      | VCYT   | \$7.40   | \$7.36               | \$7.54     | \$7.44        | \$8.14                     |
| 9/29/2016  | Buy       | NTLA   | \$17.19  | \$16.75              | \$18.50    | \$17.00       | \$16.52                    |
| 9/29/2016  | Sell      | PRLB   | \$59.22  | \$58.80              | \$59.86    | \$59.26       | \$70.60                    |
| 9/29/2016  | Buy       | CGEN   | \$6.38   | \$6.30               | \$6.51     | \$6.35        | \$3.45                     |
| 9/27/2016  | Sell      | PRLB   | \$57.05  | \$56.18              | \$58.26    | \$57.85       | \$70.60                    |
| 9/27/2016  | Sell      | XONE   | \$14.96  | \$14.54              | \$15.21    | \$15.16       | \$11.42                    |
| 9/27/2016  | Buy       | NNDM   | \$6.50   | \$7.08               | \$7.74     | \$7.62        | \$5.74                     |
| 9/19/2016  | Buy       | TWTR   | \$19.00  | \$18.28              | \$19.24    | \$18.36       | \$20.53                    |
| 9/19/2016  | Buy       | TUBE   | \$9.05   | \$8.97               | \$9.26     | \$9.14        | #N/A Real Time             |
| 9/19/2016  | Buy       | TWTR   | \$18.32  | \$18.28              | \$19.24    | \$18.36       | \$20.53                    |
| 9/19/2016  | Buy       | CRM    | \$72.80  | \$72.60              | \$73.78    | \$73.00       | \$90.54                    |
| 9/19/2016  | Sell      | AAPL   | \$113.39 | \$113.25             | \$116.18   | \$113.58      | \$150.34                   |
| 9/19/2016  | Buy       | CGEN   | \$6.74   | \$6.69               | \$6.82     | \$6.70        | \$3.45                     |
| 9/19/2016  | Sell      | NSTG   | \$18.66  | \$18.23              | \$18.89    | \$18.62       | \$15.95                    |
| 9/19/2016  | Buy       | TWTR   | \$19.00  | \$18.28              | \$19.24    | \$18.36       | \$20.53                    |
| 9/19/2016  | Buy       | TUBE   | \$9.05   | \$8.97               | \$9.26     | \$9.14        | #N/A Real Time             |
| 9/19/2016  | Buy       | CRM    | \$72.91  | \$72.60              | \$73.78    | \$73.00       | \$90.54                    |
| 9/19/2016  | Sell      | AAPL   | \$113.53 | \$113.25             | \$116.18   | \$113.58      | \$150.34                   |
| 9/19/2016  | Buy       | VLKAY  | \$28.75  | \$28.59              | \$28.96    | \$28.72       | \$33.71                    |
| 9/19/2016  | Sell      | MZOR   | \$24.22  | \$23.01              | \$24.69    | \$24.23       | \$39.36                    |
| 9/19/2016  | Sell      | AMOT   | \$18.89  | \$18.80              | \$19.48    | \$18.92       | \$29.05                    |
| 9/19/2016  | Buy       | FSLR   | \$34.69  | \$34.40              | \$35.20    | \$34.42       | \$46.27                    |
| 9/19/2016  | Sell      | AMBA   | \$69.08  | \$68.22              | \$69.95    | \$68.40       | \$51.35                    |
| 9/19/2016  | Buy       | SYRS   | \$12.91  | \$11.66              | \$13.40    | \$13.40       | \$18.35                    |
| 9/19/2016  | Buy       | CGEN   | \$6.71   | \$6.69               | \$6.82     | \$6.70        | \$3.45                     |
| 9/19/2016  | Sell      | NSTG   | \$18.58  | \$18.23              | \$18.89    | \$18.62       | \$15.95                    |
| 9/19/2016  | Sell      | BLUE   | \$71.18  | \$70.45              | \$74.95    | \$70.95       | \$95.80                    |
| 9/16/2016  | Buy       | GE     | \$29.59  | \$29.54              | \$29.75    | \$29.68       | \$26.69                    |
| 9/16/2016  | Sell      | SPLK   | \$58.57  | \$58.49              | \$59.39    | \$59.06       | \$61.56                    |
| 9/16/2016  | Sell      | AMBA   | \$67.53  | \$67.18              | \$69.19    | \$68.20       | \$51.35                    |
| 9/12/2016  | Sell      | VCYT   | \$6.86   | \$6.54               | \$7.00     | \$6.84        | \$8.14                     |
| 9/12/2016  | Buy       | NSTG   | \$16.32  | \$16.20              | \$16.77    | \$16.36       | \$15.95                    |
| 9/12/2016  | Buy       | BIIB   | \$303.20 | \$293.84             | \$303.85   | \$302.66      | \$281.44                   |
| 9/12/2016  | Buy       | MLNX   | \$40.35  | \$40.00              | \$40.72    | \$40.51       | \$44.60                    |
| 9/12/2016  | Sell      | AAPL   | \$105.66 | \$102.53             | \$105.72   | \$105.44      | \$150.34                   |
| 9/12/2016  | Sell      | RHT    | \$73.01  | \$71.52              | \$73.06    | \$72.95       | \$98.92                    |
| 9/12/2016  | Buy       | HDP    | \$7.46   | \$7.15               | \$7.48     | \$7.47        | \$12.52                    |
| 9/12/2016  | Sell      | DDD    | \$15.48  | \$14.74              | \$15.57    | \$15.49       | \$17.60                    |
| 9/12/2016  | Buy       | NXPI   | \$82.89  | \$80.13              | \$83.20    | \$82.91       | \$109.71                   |
| 9/9/2016   | Buy       | TMO    | \$145.96 | \$143.68             | \$148.52   | \$143.68      | \$181.55                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 9/9/2016   | Sell      | MON    | \$107.90 | \$106.67             | \$109.07   | \$106.78      | \$117.01                   |
| 9/9/2016   | Buy       | NVTA   | \$8.07   | \$7.74               | \$8.51     | \$7.77        | \$9.34                     |
| 9/9/2016   | Buy       | BLUE   | \$54.28  | \$53.33              | \$57.00    | \$53.43       | \$95.80                    |
| 9/9/2016   | Buy       | KITE   | \$57.66  | \$56.63              | \$60.79    | \$56.73       | \$109.89                   |
| 9/9/2016   | Buy       | AGIO   | \$43.70  | \$42.95              | \$46.05    | \$43.00       | \$57.23                    |
| 9/9/2016   | Buy       | ALNY   | \$71.02  | \$69.75              | \$72.95    | \$69.79       | \$80.51                    |
| 9/9/2016   | Buy       | JUNO   | \$28.50  | \$28.01              | \$29.45    | \$28.02       | \$29.04                    |
| 9/9/2016   | Sell      | MON    | \$106.98 | \$106.67             | \$109.07   | \$106.78      | \$117.01                   |
| 9/8/2016   | Sell      | VCYT   | \$6.74   | \$6.03               | \$6.90     | \$6.74        | \$8.14                     |
| 9/8/2016   | Sell      | TER    | \$21.26  | \$21.06              | \$21.34    | \$21.28       | \$35.33                    |
| 9/8/2016   | Sell      | TCEHY  | \$27.60  | \$27.48              | \$27.75    | \$27.60       | \$38.16                    |
| 9/8/2016   | Sell      | LC     | \$5.45   | \$5.30               | \$5.48     | \$5.47        | \$5.20                     |
| 9/7/2016   | Buy       | ONVO   | \$4.23   | \$4.11               | \$4.25     | \$4.12        | \$2.32                     |
| 9/7/2016   | Sell      | TER    | \$21.19  | \$21.07              | \$21.40    | \$21.26       | \$35.33                    |
| 9/7/2016   | Buy       | ONVO   | \$4.21   | \$4.11               | \$4.25     | \$4.12        | \$2.32                     |
| 9/7/2016   | Sell      | AAPL   | \$107.71 | \$107.07             | \$108.76   | \$108.36      | \$150.34                   |
| 9/7/2016   | Sell      | TER    | \$21.20  | \$21.07              | \$21.40    | \$21.26       | \$35.33                    |
| 9/7/2016   | Buy       | NTDOY  | \$32.29  | \$30.00              | \$36.55    | \$36.32       | \$41.53                    |
| 9/7/2016   | Sell      | NFLX   | \$98.75  | \$98.42              | \$100.19   | \$99.15       | \$183.60                   |
| 9/7/2016   | Buy       | CGEN   | \$7.18   | \$6.97               | \$7.22     | \$7.05        | \$3.45                     |
| 9/7/2016   | Buy       | ONVO   | \$4.22   | \$4.11               | \$4.25     | \$4.12        | \$2.32                     |
| 9/7/2016   | Sell      | CPHD   | \$52.51  | \$52.34              | \$52.71    | \$52.65       | #N/A Real Time             |
| 9/7/2016   | Buy       | NTDOY  | \$32.30  | \$30.00              | \$36.55    | \$36.32       | \$41.53                    |
| 9/7/2016   | Sell      | NFLX   | \$98.75  | \$98.42              | \$100.19   | \$99.15       | \$183.60                   |
| 9/6/2016   | Buy       | TSLA   | \$199.80 | \$199.00             | \$203.25   | \$202.83      | \$329.92                   |
| 9/6/2016   | Buy       | GE     | \$30.81  | \$30.80              | \$31.34    | \$31.05       | \$26.69                    |
| 9/6/2016   | Sell      | MON    | \$108.09 | \$105.85             | \$108.40   | \$106.07      | \$117.01                   |
| 9/6/2016   | Sell      | AMBA   | \$68.66  | \$66.19              | \$69.37    | \$68.88       | \$51.35                    |
| 9/6/2016   | Buy       | TSLA   | \$199.77 | \$199.00             | \$203.25   | \$202.83      | \$329.92                   |
| 9/6/2016   | Buy       | FB     | \$127.55 | \$126.47             | \$129.94   | \$129.73      | \$164.53                   |
| 9/6/2016   | Sell      | CPHD   | \$52.33  | \$52.22              | \$52.65    | \$52.53       | #N/A Real Time             |
| 9/6/2016   | Sell      | CPHD   | \$52.22  | \$52.22              | \$52.65    | \$52.53       | #N/A Real Time             |
| 9/6/2016   | Buy       | TREE   | \$92.48  | \$91.55              | \$96.55    | \$95.08       | \$180.90                   |
| 9/6/2016   | Buy       | FB     | \$127.58 | \$126.47             | \$129.94   | \$129.73      | \$164.53                   |
| 9/6/2016   | Sell      | TWLO   | \$58.48  | \$57.79              | \$60.69    | \$59.18       | \$31.06                    |
| 9/6/2016   | Sell      | AAPL   | \$107.63 | \$107.51             | \$108.30   | \$107.68      | \$150.34                   |
| 9/6/2016   | Buy       | BIIB   | \$311.55 | \$309.12             | \$316.47   | \$310.67      | \$281.44                   |
| 9/6/2016   | Buy       | AGIO   | \$37.22  | \$36.50              | \$37.91    | \$37.32       | \$57.23                    |
| 9/6/2016   | Buy       | JUNO   | \$28.76  | \$28.11              | \$28.96    | \$28.81       | \$29.04                    |
| 9/6/2016   | Buy       | BMJ    | \$56.83  | \$56.12              | \$57.13    | \$56.96       | \$55.44                    |
| 9/6/2016   | Buy       | CGEN   | \$7.28   | \$7.13               | \$7.44     | \$7.22        | \$3.45                     |
| 9/6/2016   | Buy       | NVZMY  | \$44.22  | \$43.71              | \$44.24    | \$44.06       | \$45.52                    |
| 9/6/2016   | Buy       | NSTG   | \$16.37  | \$16.29              | \$16.72    | \$16.43       | \$15.95                    |
| 9/6/2016   | Buy       | INCY   | \$83.26  | \$81.75              | \$83.95    | \$83.75       | \$133.79                   |
| 9/6/2016   | Buy       | NTLA   | \$19.88  | \$19.07              | \$20.12    | \$19.76       | \$16.52                    |
| 9/6/2016   | Buy       | VCYT   | \$5.73   | \$5.60               | \$5.75     | \$5.68        | \$8.14                     |
| 9/6/2016   | Sell      | CPHD   | \$52.30  | \$52.22              | \$52.65    | \$52.53       | #N/A Real Time             |
| 9/1/2016   | Buy       | BIDU   | \$174.29 | \$171.77             | \$176.83   | \$176.55      | \$191.32                   |
| 9/1/2016   | Buy       | TSLA   | \$201.82 | \$200.50             | \$211.10   | \$200.77      | \$329.92                   |
| 9/1/2016   | Sell      | DASTY  | \$85.03  | \$84.78              | \$85.64    | \$85.33       | \$91.43                    |
| 9/1/2016   | Buy       | PRLB   | \$53.37  | \$52.82              | \$55.00    | \$53.57       | \$70.60                    |
| 9/1/2016   | Sell      | TER    | \$21.04  | \$20.84              | \$21.22    | \$21.21       | \$35.33                    |

| ARK Trades |           |        |           | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|-----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price     | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 9/1/2016   | Sell      | TWOU   | \$35.65   | \$35.20              | \$35.76    | \$35.75       | \$50.00                    |
| 9/1/2016   | Sell      | TRMB   | \$27.24   | \$27.14              | \$27.51    | \$27.34       | \$37.55                    |
| 9/1/2016   | Buy       | CRM    | \$75.56   | \$74.06              | \$76.55    | \$75.91       | \$90.54                    |
| 9/1/2016   | Buy       | BIDU   | \$174.00  | \$171.77             | \$176.83   | \$176.55      | \$191.32                   |
| 9/1/2016   | Buy       | TSLA   | \$202.00  | \$200.50             | \$211.10   | \$200.77      | \$329.92                   |
| 9/1/2016   | Buy       | PRLB   | \$53.34   | \$52.82              | \$55.00    | \$53.57       | \$70.60                    |
| 9/1/2016   | Sell      | TWOU   | \$35.60   | \$35.20              | \$35.76    | \$35.75       | \$50.00                    |
| 9/1/2016   | Sell      | NFLX   | \$97.43   | \$96.92              | \$97.98    | \$97.38       | \$183.60                   |
| 9/1/2016   | Sell      | TER    | \$21.07   | \$20.84              | \$21.22    | \$21.21       | \$35.33                    |
| 9/1/2016   | Buy       | CRM    | \$75.64   | \$74.06              | \$76.55    | \$75.91       | \$90.54                    |
| 9/1/2016   | Buy       | BIDU   | \$173.77  | \$171.77             | \$176.83   | \$176.55      | \$191.32                   |
| 9/1/2016   | Buy       | BOX    | \$13.56   | \$13.20              | \$13.98    | \$13.98       | \$19.73                    |
| 9/1/2016   | Buy       | TSLA   | \$201.69  | \$200.50             | \$211.10   | \$200.77      | \$329.92                   |
| 9/1/2016   | Sell      | PTC    | \$42.72   | \$42.30              | \$42.86    | \$42.84       | \$54.10                    |
| 9/1/2016   | Sell      | NFLX   | \$97.41   | \$96.92              | \$97.98    | \$97.38       | \$183.60                   |
| 9/1/2016   | Sell      | TWOU   | \$35.68   | \$35.20              | \$35.76    | \$35.75       | \$50.00                    |
| 8/31/2016  | Buy       | PRLB   | \$56.00   | \$54.48              | \$57.50    | \$54.72       | \$70.60                    |
| 8/31/2016  | Buy       | AVAV   | \$25.08   | \$23.85              | \$26.23    | \$24.74       | \$38.11                    |
| 8/31/2016  | Buy       | SSYS   | \$21.67   | \$21.21              | \$22.79    | \$21.34       | \$23.60                    |
| 8/31/2016  | Sell      | AMBA   | \$71.27   | \$68.95              | \$72.99    | \$72.04       | \$51.35                    |
| 8/31/2016  | Sell      | DASTY  | \$84.07   | \$84.05              | \$84.86    | \$84.21       | \$91.43                    |
| 8/31/2016  | Sell      | TRMB   | \$27.37   | \$27.30              | \$27.51    | \$27.40       | \$37.55                    |
| 8/31/2016  | Buy       | PRLB   | \$55.91   | \$54.48              | \$57.50    | \$54.72       | \$70.60                    |
| 8/31/2016  | Buy       | JUNO   | \$29.79   | \$28.52              | \$30.92    | \$29.58       | \$29.04                    |
| 8/31/2016  | Buy       | SSYS   | \$21.66   | \$21.21              | \$22.79    | \$21.34       | \$23.60                    |
| 8/31/2016  | Sell      | SCHW   | \$31.34   | \$31.16              | \$31.87    | \$31.46       | \$42.14                    |
| 8/31/2016  | Sell      | TER    | \$21.07   | \$20.87              | \$21.35    | \$21.06       | \$35.33                    |
| 8/31/2016  | Sell      | TWOU   | \$35.38   | \$35.18              | \$35.47    | \$35.34       | \$50.00                    |
| 8/31/2016  | Sell      | SQ     | \$12.18   | \$12.02              | \$12.22    | \$12.19       | \$26.39                    |
| 8/31/2016  | Buy       | NTLA   | \$19.44   | \$19.21              | \$20.03    | \$19.45       | \$16.52                    |
| 8/31/2016  | Buy       | JUNO   | \$29.77   | \$28.52              | \$30.92    | \$29.58       | \$29.04                    |
| 8/31/2016  | Sell      | CERS   | \$6.30    | \$6.28               | \$6.65     | \$6.33        | \$2.21                     |
| 8/29/2016  | Buy       | ATHN   | -\$123.19 | \$121.80             | \$123.41   | \$122.89      | \$143.80                   |
| 8/29/2016  | Sell      | EDIT   | \$17.35   | \$16.56              | \$18.23    | \$17.42       | \$15.74                    |
| 8/29/2016  | Buy       | IONS   | -\$30.37  | \$30.05              | \$30.90    | \$30.32       | \$55.86                    |
| 8/29/2016  | Buy       | NTLA   | -\$19.90  | \$19.68              | \$21.34    | \$19.91       | \$16.52                    |
| 8/29/2016  | Buy       | ONVO   | -\$3.95   | \$3.80               | \$3.98     | \$3.91        | \$2.32                     |
| 8/29/2016  | Sell      | XON    | \$25.54   | \$24.30              | \$26.36    | \$25.47       | \$23.65                    |
| 8/29/2016  | Sell      | AMBA   | \$70.42   | \$69.60              | \$71.18    | \$70.54       | \$51.35                    |
| 8/29/2016  | Sell      | CRM    | \$79.92   | \$79.72              | \$80.24    | \$79.92       | \$90.54                    |
| 8/29/2016  | Buy       | LC     | -\$5.53   | \$5.39               | \$5.59     | \$5.56        | \$5.20                     |
| 8/29/2016  | Buy       | TSLA   | -\$215.93 | \$215.00             | \$220.40   | \$215.20      | \$329.92                   |
| 8/29/2016  | Sell      | AMBA   | \$70.45   | \$69.60              | \$71.18    | \$70.54       | \$51.35                    |
| 8/29/2016  | Sell      | ARAY   | \$5.45    | \$5.22               | \$5.48     | \$5.48        | \$4.60                     |
| 8/29/2016  | Buy       | TSLA   | -\$215.69 | \$215.00             | \$220.40   | \$215.20      | \$329.92                   |
| 8/29/2016  | Buy       | VLKAY  | -\$28.75  | \$28.48              | \$28.78    | \$28.70       | \$33.71                    |
| 8/29/2016  | Buy       | ONVO   | -\$3.94   | \$3.80               | \$3.98     | \$3.91        | \$2.32                     |
| 8/29/2016  | Sell      | TER    | \$21.11   | \$21.10              | \$21.32    | \$21.11       | \$35.33                    |
| 8/29/2016  | Buy       | ATHN   | -\$122.98 | \$121.80             | \$123.41   | \$122.89      | \$143.80                   |
| 8/29/2016  | Buy       | LC     | -\$5.56   | \$5.39               | \$5.59     | \$5.56        | \$5.20                     |
| 8/29/2016  | Sell      | NVDA   | \$62.06   | \$61.89              | \$62.53    | \$61.99       | \$167.50                   |
| 8/29/2016  | Sell      | TER    | \$21.11   | \$21.10              | \$21.32    | \$21.11       | \$35.33                    |

| ARK Trades |           |        |           | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|-----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price     | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 8/29/2016  | Buy       | TSLA   | -\$215.53 | \$215.00             | \$220.40   | \$215.20      | \$329.92                   |
| 8/29/2016  | Sell      | TWOU   | \$35.38   | \$35.30              | \$35.99    | \$35.35       | \$50.00                    |
| 8/26/2016  | Buy       | SPLK   | -\$59.50  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Buy       | SPLK   | -\$59.82  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Buy       | NVTA   | -\$7.78   | \$7.52               | \$7.98     | \$7.57        | \$9.34                     |
| 8/26/2016  | Sell      | CERS   | \$6.69    | \$6.47               | \$6.85     | \$6.75        | \$2.21                     |
| 8/26/2016  | Sell      | XONE   | \$14.41   | \$14.01              | \$14.70    | \$14.17       | \$11.42                    |
| 8/26/2016  | Sell      | CTRP   | \$47.24   | \$46.40              | \$47.85    | \$47.44       | \$57.36                    |
| 8/26/2016  | Sell      | DDD    | \$16.05   | \$15.89              | \$16.46    | \$16.04       | \$17.60                    |
| 8/26/2016  | Sell      | TER    | \$20.94   | \$20.92              | \$21.15    | \$21.06       | \$35.33                    |
| 8/26/2016  | Buy       | SPLK   | -\$59.50  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Buy       | SPLK   | -\$59.65  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Sell      | ARAY   | \$5.36    | \$5.32               | \$5.42     | \$5.38        | \$4.60                     |
| 8/26/2016  | Buy       | NVTA   | -\$7.78   | \$7.52               | \$7.98     | \$7.57        | \$9.34                     |
| 8/26/2016  | Sell      | CERS   | \$6.66    | \$6.47               | \$6.85     | \$6.75        | \$2.21                     |
| 8/26/2016  | Buy       | SPLK   | -\$59.50  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Buy       | SPLK   | -\$59.87  | \$57.58              | \$61.88    | \$58.52       | \$61.56                    |
| 8/26/2016  | Sell      | MELI   | \$166.24  | \$166.04             | \$167.90   | \$166.95      | \$282.08                   |
| 8/26/2016  | Sell      | AMBA   | \$68.46   | \$68.35              | \$70.00    | \$68.98       | \$51.35                    |
| 8/26/2016  | Sell      | NXPI   | \$87.58   | \$87.35              | \$89.29    | \$88.49       | \$109.71                   |
| 8/24/2016  | Buy       | DLPH   | \$68.30   | \$68.12              | \$69.12    | \$68.65       | \$93.10                    |
| 8/24/2016  | Sell      | TER    | \$21.03   | \$20.81              | \$21.10    | \$20.84       | \$35.33                    |
| 8/24/2016  | Sell      | FMI    | \$23.09   | \$21.22              | \$23.35    | \$21.56       | \$38.00                    |
| 8/24/2016  | Sell      | XONE   | \$14.26   | \$14.00              | \$14.44    | \$14.11       | \$11.42                    |
| 8/24/2016  | Sell      | AAPL   | \$108.36  | \$107.68             | \$108.75   | \$108.03      | \$150.34                   |
| 8/24/2016  | Buy       | NVTA   | \$7.94    | \$7.78               | \$8.98     | \$8.01        | \$9.34                     |
| 8/24/2016  | Buy       | NVTA   | \$8.01    | \$7.78               | \$8.98     | \$8.01        | \$9.34                     |
| 8/24/2016  | Buy       | ALNY   | \$71.17   | \$70.60              | \$77.62    | \$70.83       | \$80.51                    |
| 8/24/2016  | Buy       | CGEN   | \$6.89    | \$6.78               | \$7.27     | \$6.86        | \$3.45                     |
| 8/24/2016  | Sell      | GOOG   | \$767.15  | \$767.07             | \$774.50   | \$769.64      | \$968.15                   |
| 8/24/2016  | Buy       | NVTA   | \$8.00    | \$7.78               | \$8.98     | \$8.01        | \$9.34                     |
| 8/24/2016  | Buy       | IONS   | \$32.15   | \$31.41              | \$34.91    | \$31.64       | \$55.86                    |
| 8/24/2016  | Buy       | CGEN   | \$6.88    | \$6.78               | \$7.27     | \$6.86        | \$3.45                     |
| 8/24/2016  | Buy       | NTLA   | \$21.59   | \$21.03              | \$24.90    | \$21.08       | \$16.52                    |
| 8/24/2016  | Buy       | NVTA   | \$8.01    | \$7.78               | \$8.98     | \$8.01        | \$9.34                     |
| 8/24/2016  | Sell      | GILD   | \$80.30   | \$80.18              | \$82.10    | \$80.50       | \$73.42                    |
| 8/24/2016  | Sell      | NVDA   | \$61.78   | \$61.65              | \$63.16    | \$61.94       | \$167.50                   |
| 8/24/2016  | Sell      | MDSO   | \$53.93   | \$52.99              | \$55.31    | \$54.03       | \$75.78                    |
| 8/24/2016  | Buy       | FMI    | \$21.30   | \$21.22              | \$23.35    | \$21.56       | \$38.00                    |
| 8/23/2016  | Buy       | SQ     | \$12.35   | \$12.15              | \$12.54    | \$12.39       | \$26.39                    |
| 8/23/2016  | Buy       | HDP    | \$8.18    | \$8.07               | \$8.58     | \$8.12        | \$12.52                    |
| 8/23/2016  | Sell      | SPLK   | \$65.05   | \$64.30              | \$65.33    | \$64.85       | \$61.56                    |
| 8/23/2016  | Sell      | XONE   | \$13.92   | \$13.74              | \$14.17    | \$13.97       | \$11.42                    |
| 8/23/2016  | Sell      | TWOU   | \$36.18   | \$35.60              | \$36.26    | \$35.97       | \$50.00                    |
| 8/23/2016  | Buy       | SQ     | \$12.34   | \$12.15              | \$12.54    | \$12.39       | \$26.39                    |
| 8/23/2016  | Buy       | HDP    | \$8.21    | \$8.07               | \$8.58     | \$8.12        | \$12.52                    |
| 8/23/2016  | Sell      | AAPL   | \$108.83  | \$108.53             | \$109.32   | \$108.85      | \$150.34                   |
| 8/23/2016  | Sell      | AMBA   | \$68.32   | \$66.70              | \$68.66    | \$67.86       | \$51.35                    |
| 8/23/2016  | Sell      | TWLO   | \$59.11   | \$55.71              | \$61.35    | \$56.08       | \$31.06                    |
| 8/22/2016  | Buy       | NTLA   | \$23.20   | \$22.32              | \$23.47    | \$22.54       | \$16.52                    |
| 8/22/2016  | Buy       | EDIT   | \$19.55   | \$18.77              | \$19.64    | \$19.42       | \$15.74                    |
| 8/22/2016  | Sell      | CERS   | \$6.82    | \$6.72               | \$6.91     | \$6.89        | \$2.21                     |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 8/22/2016  | Sell      | CERS   | \$6.82   | \$6.72               | \$6.91     | \$6.89        | \$2.21                     |
| 8/22/2016  | Sell      | INCY   | \$81.25  | \$79.11              | \$84.39    | \$81.98       | \$133.79                   |
| 8/22/2016  | Sell      | CPHD   | \$35.84  | \$35.26              | \$36.08    | \$35.82       | #N/A Real Time             |
| 8/19/2016  | Buy       | ATHN   | \$121.50 | \$120.55             | \$122.46   | \$122.10      | \$143.80                   |
| 8/18/2016  | Sell      | ILMN   | \$180.18 | \$163.60             | \$182.67   | \$172.37      | \$171.97                   |
| 8/18/2016  | Buy       | INO    | \$8.74   | \$8.51               | \$8.75     | \$8.69        | \$6.01                     |
| 8/17/2016  | Buy       | TUBE   | \$9.65   | \$9.46               | \$9.65     | \$9.52        | #N/A Real Time             |
| 8/17/2016  | Sell      | PRLB   | \$59.00  | \$58.49              | \$59.46    | \$58.65       | \$70.60                    |
| 8/17/2016  | Sell      | XONE   | \$13.70  | \$13.45              | \$14.00    | \$13.81       | \$11.42                    |
| 8/16/2016  | Buy       | TSLA   | \$225.95 | \$223.41             | \$227.19   | \$223.61      | \$329.92                   |
| 8/16/2016  | Buy       | DLPH   | \$64.95  | \$64.10              | \$65.07    | \$64.53       | \$93.10                    |
| 8/16/2016  | Sell      | NVDA   | \$62.55  | \$62.41              | \$62.99    | \$62.60       | \$167.50                   |
| 8/16/2016  | Sell      | ADSK   | \$62.61  | \$62.61              | \$63.26    | \$62.65       | \$109.91                   |
| 8/16/2016  | Sell      | TWOU   | \$35.04  | \$34.29              | \$35.18    | \$34.90       | \$50.00                    |
| 8/16/2016  | Buy       | TSLA   | \$225.38 | \$223.41             | \$227.19   | \$223.61      | \$329.92                   |
| 8/16/2016  | Buy       | DLPH   | \$64.95  | \$64.10              | \$65.07    | \$64.53       | \$93.10                    |
| 8/16/2016  | Sell      | ILMN   | \$170.41 | \$169.48             | \$174.84   | \$169.65      | \$171.97                   |
| 8/16/2016  | Sell      | FMI    | \$24.60  | \$24.32              | \$24.75    | \$24.48       | \$38.00                    |
| 8/16/2016  | Sell      | JUNO   | \$34.42  | \$33.61              | \$35.04    | \$34.21       | \$29.04                    |
| 8/16/2016  | Sell      | NVDA   | \$62.59  | \$62.41              | \$62.99    | \$62.60       | \$167.50                   |
| 8/15/2016  | Buy       | TWTR   | \$20.28  | \$19.83              | \$21.10    | \$20.86       | \$20.53                    |
| 8/15/2016  | Sell      | SPLK   | \$65.00  | \$64.12              | \$65.75    | \$64.91       | \$61.56                    |
| 8/15/2016  | Buy       | MTLS   | \$6.80   | \$6.42               | \$6.94     | \$6.77        | \$13.33                    |
| 8/15/2016  | Buy       | FSLR   | \$38.59  | \$38.31              | \$38.95    | \$38.33       | \$46.27                    |
| 8/15/2016  | Sell      | MZOR   | \$23.31  | \$23.22              | \$23.89    | \$23.49       | \$39.36                    |
| 8/15/2016  | Sell      | ADSK   | \$63.12  | \$61.40              | \$63.21    | \$62.98       | \$109.91                   |
| 8/15/2016  | Buy       | TWTR   | \$20.29  | \$19.83              | \$21.10    | \$20.86       | \$20.53                    |
| 8/15/2016  | Buy       | MTLS   | \$6.80   | \$6.42               | \$6.94     | \$6.77        | \$13.33                    |
| 8/15/2016  | Buy       | NSTG   | \$16.51  | \$16.39              | \$16.82    | \$16.47       | \$15.95                    |
| 8/15/2016  | Sell      | PRLB   | \$59.98  | \$59.10              | \$60.15    | \$59.81       | \$70.60                    |
| 8/15/2016  | Sell      | TWOU   | \$34.94  | \$34.12              | \$35.14    | \$35.14       | \$50.00                    |
| 8/15/2016  | Sell      | SPLK   | \$65.00  | \$64.12              | \$65.75    | \$64.91       | \$61.56                    |
| 8/11/2016  | Buy       | MTLS   | \$6.90   | \$6.80               | \$7.00     | \$6.85        | \$13.33                    |
| 8/11/2016  | Sell      | ADSK   | \$61.70  | \$58.78              | \$61.75    | \$61.71       | \$109.91                   |
| 8/11/2016  | Buy       | MCRB   | \$9.00   | \$8.92               | \$9.82     | \$9.73        | \$13.60                    |
| 8/11/2016  | Buy       | MTLS   | \$6.90   | \$6.80               | \$7.00     | \$6.85        | \$13.33                    |
| 8/11/2016  | Sell      | AMZN   | \$771.60 | \$769.12             | \$773.75   | \$771.24      | \$1,028.70                 |
| 8/11/2016  | Buy       | MCRB   | \$9.00   | \$8.92               | \$9.82     | \$9.73        | \$13.60                    |
| 8/11/2016  | Sell      | NVDA   | \$59.60  | \$58.70              | \$59.95    | \$59.70       | \$167.50                   |
| 8/10/2016  | Buy       | HDP    | \$9.26   | \$8.93               | \$9.53     | \$8.97        | \$12.52                    |
| 8/10/2016  | Buy       | TUBE   | \$9.97   | \$9.69               | \$10.10    | \$9.73        | #N/A Real Time             |
| 8/10/2016  | Sell      | AMBA   | \$60.06  | \$59.88              | \$61.50    | \$60.10       | \$51.35                    |
| 8/10/2016  | Buy       | OA     | \$73.40  | \$67.04              | \$79.69    | \$70.79       | \$102.40                   |
| 8/10/2016  | Buy       | FSLR   | \$38.43  | \$36.83              | \$40.50    | \$38.66       | \$46.27                    |
| 8/10/2016  | Sell      | XLNX   | \$51.64  | \$51.57              | \$51.94    | \$51.65       | \$65.81                    |
| 8/10/2016  | Buy       | HDP    | \$9.26   | \$8.93               | \$9.53     | \$8.97        | \$12.52                    |
| 8/10/2016  | Sell      | FEYE   | \$14.01  | \$13.80              | \$14.30    | \$13.91       | \$15.86                    |
| 8/10/2016  | Sell      | FEYE   | \$13.91  | \$13.80              | \$14.30    | \$13.91       | \$15.86                    |
| 8/10/2016  | Sell      | TWLO   | \$43.20  | \$41.90              | \$43.95    | \$43.63       | \$31.06                    |
| 8/10/2016  | Buy       | TUBE   | \$9.97   | \$9.69               | \$10.10    | \$9.73        | #N/A Real Time             |
| 8/9/2016   | Buy       | INO    | \$8.57   | \$8.52               | \$9.09     | \$9.05        | \$6.01                     |
| 8/9/2016   | Sell      | MDSO   | \$54.26  | \$54.06              | \$54.65    | \$54.40       | \$75.78                    |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 8/9/2016   | Buy       | TUBE   | \$9.89   | \$9.85               | \$10.52    | \$10.04       | #N/A Real Time             |
| 8/9/2016   | Buy       | LC     | \$4.69   | \$4.30               | \$4.99     | \$4.79        | \$5.20                     |
| 8/9/2016   | Buy       | TUBE   | \$10.45  | \$9.85               | \$10.52    | \$10.04       | #N/A Real Time             |
| 8/9/2016   | Buy       | LC     | \$4.35   | \$4.30               | \$4.99     | \$4.79        | \$5.20                     |
| 8/9/2016   | Sell      | AMBA   | \$61.11  | \$59.01              | \$62.10    | \$61.08       | \$51.35                    |
| 8/9/2016   | Sell      | HUBS   | \$58.57  | \$57.54              | \$58.98    | \$58.65       | \$73.95                    |
| 8/9/2016   | Buy       | LC     | \$4.67   | \$4.30               | \$4.99     | \$4.79        | \$5.20                     |
| 8/9/2016   | Buy       | LC     | \$4.35   | \$4.30               | \$4.99     | \$4.79        | \$5.20                     |
| 8/9/2016   | Sell      | AMBA   | \$60.92  | \$59.01              | \$62.10    | \$61.08       | \$51.35                    |
| 8/9/2016   | Sell      | CPHD   | \$36.85  | \$36.52              | \$37.26    | \$36.89       | #N/A Real Time             |
| 8/9/2016   | Sell      | FMI    | \$25.19  | \$24.91              | \$25.31    | \$25.10       | \$38.00                    |
| 8/9/2016   | Sell      | NVDA   | \$58.83  | \$58.74              | \$59.46    | \$58.89       | \$167.50                   |
| 8/9/2016   | Sell      | MZOR   | \$22.81  | \$22.47              | \$23.00    | \$22.86       | \$39.36                    |
| 8/8/2016   | Buy       | MLNX   | \$42.86  | \$42.51              | \$43.44    | \$42.56       | \$44.60                    |
| 8/8/2016   | Sell      | FEYE   | \$14.59  | \$14.06              | \$14.82    | \$14.42       | \$15.86                    |
| 8/8/2016   | Buy       | NTDOY  | \$25.99  | \$25.86              | \$26.10    | \$26.03       | \$41.53                    |
| 8/8/2016   | Sell      | SPLK   | \$61.43  | \$61.00              | \$62.41    | \$61.34       | \$61.56                    |
| 8/8/2016   | Sell      | TWOU   | \$35.80  | \$35.32              | \$36.36    | \$35.84       | \$50.00                    |
| 8/8/2016   | Buy       | NTDOY  | \$26.00  | \$25.86              | \$26.10    | \$26.03       | \$41.53                    |
| 8/8/2016   | Sell      | FEYE   | \$14.42  | \$14.06              | \$14.82    | \$14.42       | \$15.86                    |
| 8/8/2016   | Buy       | HDP    | \$9.81   | \$9.56               | \$10.23    | \$9.69        | \$12.52                    |
| 8/8/2016   | Buy       | TER    | \$20.07  | \$19.93              | \$20.12    | \$20.07       | \$35.33                    |
| 8/8/2016   | Buy       | MCRB   | \$9.72   | \$9.53               | \$10.08    | \$9.69        | \$13.60                    |
| 8/8/2016   | Buy       | MCRB   | \$9.84   | \$9.53               | \$10.08    | \$9.69        | \$13.60                    |
| 8/8/2016   | Buy       | BMY    | \$60.49  | \$60.00              | \$63.65    | \$60.30       | \$55.44                    |
| 8/8/2016   | Buy       | INO    | \$9.34   | \$9.12               | \$9.95     | \$9.35        | \$6.01                     |
| 8/8/2016   | Buy       | AGIO   | \$40.43  | \$40.01              | \$43.68    | \$40.63       | \$57.23                    |
| 8/8/2016   | Sell      | ILMN   | \$166.11 | \$165.72             | \$167.88   | \$166.46      | \$171.97                   |
| 8/8/2016   | Sell      | ALNY   | \$76.10  | \$75.32              | \$79.79    | \$76.33       | \$80.51                    |
| 8/8/2016   | Sell      | GOOG   | \$780.33 | \$778.09             | \$782.63   | \$781.76      | \$968.15                   |
| 8/8/2016   | Buy       | ALGN   | \$91.61  | \$91.47              | \$92.40    | \$91.80       | \$160.17                   |
| 8/8/2016   | Buy       | AVAV   | \$28.90  | \$28.68              | \$28.98    | \$28.96       | \$38.11                    |
| 8/8/2016   | Buy       | FANUY  | \$28.04  | \$27.80              | \$28.26    | \$28.02       | \$20.12                    |
| 8/8/2016   | Buy       | TER    | \$20.07  | \$19.93              | \$20.12    | \$20.07       | \$35.33                    |
| 8/5/2016   | Sell      | FEYE   | \$14.16  | \$13.80              | \$14.82    | \$14.73       | \$15.86                    |
| 8/5/2016   | Buy       | HDP    | \$8.67   | \$8.17               | \$9.89     | \$9.84        | \$12.52                    |
| 8/5/2016   | Sell      | FEYE   | \$14.16  | \$13.80              | \$14.82    | \$14.73       | \$15.86                    |
| 8/5/2016   | Buy       | HDP    | \$8.66   | \$8.17               | \$9.89     | \$9.84        | \$12.52                    |
| 8/5/2016   | Buy       | BMY    | \$62.40  | \$61.56              | \$64.77    | \$63.28       | \$55.44                    |
| 8/5/2016   | Sell      | CERS   | \$6.98   | \$6.71               | \$7.35     | \$7.30        | \$2.21                     |
| 8/5/2016   | Sell      | CERS   | \$7.15   | \$6.71               | \$7.35     | \$7.30        | \$2.21                     |
| 8/4/2016   | Buy       | FSLR   | \$45.26  | \$42.77              | \$49.50    | \$43.72       | \$46.27                    |
| 8/4/2016   | Buy       | ALB    | \$81.59  | \$80.39              | \$84.66    | \$82.12       | \$117.91                   |
| 8/4/2016   | Sell      | ALV    | \$105.35 | \$104.38             | \$105.72   | \$105.06      | \$115.89                   |
| 8/4/2016   | Buy       | SSYS   | \$19.46  | \$19.36              | \$22.00    | \$19.55       | \$23.60                    |
| 8/4/2016   | Buy       | SSYS   | \$19.45  | \$19.36              | \$22.00    | \$19.55       | \$23.60                    |
| 8/4/2016   | Sell      | TWOU   | \$34.99  | \$34.72              | \$35.24    | \$35.01       | \$50.00                    |
| 8/4/2016   | Sell      | TWTR   | \$18.15  | \$17.36              | \$18.31    | \$18.13       | \$20.53                    |
| 8/3/2016   | Buy       | FMI    | \$20.87  | \$18.53              | \$24.48    | \$24.18       | \$38.00                    |
| 8/3/2016   | Buy       | INO    | \$9.69   | \$9.15               | \$9.74     | \$9.60        | \$6.01                     |
| 8/3/2016   | Sell      | CPHD   | \$37.21  | \$35.86              | \$37.30    | \$36.80       | #N/A Real Time             |
| 8/3/2016   | Sell      | NVDA   | \$55.80  | \$55.66              | \$56.30    | \$56.19       | \$167.50                   |



| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price        |
|------------|-----------|--------|----------|----------------------|------------|---------------|----------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of 7/20/2017 |
| 8/3/2016   | Buy       | FMI    | \$20.87  | \$18.53              | \$24.48    | \$24.18       | \$38.00                    |
| 8/3/2016   | Sell      | CERS   | \$7.16   | \$7.03               | \$7.29     | \$7.17        | \$2.21                     |
| 8/2/2016   | Buy       | ONVO   | \$4.17   | \$4.12               | \$4.44     | \$4.25        | \$2.32                     |
| 8/2/2016   | Sell      | MON    | \$105.15 | \$105.15             | \$106.39   | \$105.62      | \$117.01                   |
| 8/2/2016   | Buy       | MCRB   | \$9.79   | \$9.26               | \$10.20    | \$9.58        | \$13.60                    |
| 8/2/2016   | Buy       | DDD    | \$12.23  | \$11.98              | \$12.75    | \$12.18       | \$17.60                    |
| 8/2/2016   | Sell      | MON    | \$105.25 | \$105.15             | \$106.39   | \$105.62      | \$117.01                   |
| 8/2/2016   | Buy       | DDD    | \$12.22  | \$11.98              | \$12.75    | \$12.18       | \$17.60                    |
| 8/2/2016   | Sell      | CRM    | \$80.44  | \$79.60              | \$80.85    | \$80.50       | \$90.54                    |
| 8/2/2016   | Buy       | MCRB   | \$9.75   | \$9.26               | \$10.20    | \$9.58        | \$13.60                    |
| 8/2/2016   | Sell      | TWOU   | \$34.51  | \$34.10              | \$35.00    | \$34.60       | \$50.00                    |
| 8/1/2016   | Buy       | MCRB   | \$10.53  | \$10.20              | \$11.18    | \$10.44       | \$13.60                    |
| 8/1/2016   | Sell      | ILMN   | \$169.71 | \$166.13             | \$171.33   | \$170.65      | \$171.97                   |
| 8/1/2016   | Buy       | MCRB   | \$10.53  | \$10.20              | \$11.18    | \$10.44       | \$13.60                    |
| 8/1/2016   | Sell      | ILMN   | \$169.72 | \$166.13             | \$171.33   | \$170.65      | \$171.97                   |
| 8/1/2016   | Buy       | TER    | \$19.75  | \$19.69              | \$19.84    | \$19.75       | \$35.33                    |
| 8/1/2016   | Sell      | TWOU   | \$35.12  | \$34.74              | \$35.45    | \$34.92       | \$50.00                    |
| 8/1/2016   | Sell      | ALNY   | \$71.76  | \$68.16              | \$72.48    | \$71.80       | \$80.51                    |
| 8/1/2016   | Buy       | AKAM   | \$50.45  | \$50.19              | \$50.71    | \$50.60       | \$52.36                    |
| 8/1/2016   | Sell      | TWOU   | \$35.07  | \$34.74              | \$35.45    | \$34.92       | \$50.00                    |
| 8/1/2016   | Buy       | TUBE   | \$11.22  | \$11.18              | \$11.34    | \$11.23       | #N/A Real Time             |
| 8/1/2016   | Sell      | SPLK   | \$61.74  | \$61.70              | \$62.99    | \$62.04       | \$61.56                    |
| 8/1/2016   | Buy       | TER    | \$19.75  | \$19.69              | \$19.84    | \$19.75       | \$35.33                    |
| 8/1/2016   | Sell      | CSOD   | \$43.88  | \$42.32              | \$44.15    | \$44.08       | \$40.76                    |
| 7/29/2016  | Buy       | MCRB   | \$8.28   | \$8.05               | \$12.35    | \$10.94       | \$13.60                    |
| 7/29/2016  | Buy       | MCRB   | \$9.44   | \$8.05               | \$12.35    | \$10.94       | \$13.60                    |
| 7/29/2016  | Sell      | RHT    | \$75.18  | \$74.14              | \$75.39    | \$75.29       | \$98.92                    |
| 7/29/2016  | Sell      | CERS   | \$7.45   | \$6.93               | \$7.50     | \$7.39        | \$2.21                     |
| 7/29/2016  | Buy       | MCRB   | \$8.50   | \$8.05               | \$12.35    | \$10.94       | \$13.60                    |
| 7/29/2016  | Buy       | MCRB   | \$9.41   | \$8.05               | \$12.35    | \$10.94       | \$13.60                    |
| 7/29/2016  | Sell      | CPHD   | \$35.89  | \$33.27              | \$37.10    | \$35.33       | #N/A Real Time             |
| 7/29/2016  | Sell      | FPRX   | \$50.73  | \$48.70              | \$51.00    | \$50.69       | \$29.01                    |
| 7/29/2016  | Buy       | ALGN   | \$88.14  | \$85.15              | \$89.58    | \$89.15       | \$160.17                   |
| 7/29/2016  | Sell      | CSOD   | \$42.91  | \$41.80              | \$43.86    | \$43.19       | \$40.76                    |
| 7/28/2016  | Buy       | PRLB   | \$52.50  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | PRLB   | \$51.92  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | PRLB   | \$51.92  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | TER    | \$21.28  | \$19.74              | \$21.33    | \$20.45       | \$35.33                    |
| 7/28/2016  | Buy       | TER    | \$20.70  | \$19.74              | \$21.33    | \$20.45       | \$35.33                    |
| 7/28/2016  | Buy       | NXPI   | \$84.12  | \$83.06              | \$87.80    | \$84.35       | \$109.71                   |
| 7/28/2016  | Sell      | ARMH   | \$65.86  | \$65.75              | \$66.04    | \$65.92       | #N/A Real Time             |
| 7/28/2016  | Sell      | ROK    | \$115.82 | \$114.98             | \$116.92   | \$116.23      | \$166.83                   |
| 7/28/2016  | Buy       | PRLB   | \$52.50  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | PRLB   | \$51.87  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | PRLB   | \$51.86  | \$50.50              | \$56.62    | \$53.29       | \$70.60                    |
| 7/28/2016  | Buy       | TREE   | \$95.00  | \$91.85              | \$105.77   | \$102.29      | \$180.90                   |
| 7/28/2016  | Buy       | TER    | \$21.26  | \$19.74              | \$21.33    | \$20.45       | \$35.33                    |
| 7/28/2016  | Buy       | NTDOY  | \$25.15  | \$24.92              | \$25.39    | \$25.01       | \$41.53                    |
| 7/28/2016  | Buy       | TER    | \$20.71  | \$19.74              | \$21.33    | \$20.45       | \$35.33                    |
| 7/28/2016  | Buy       | NXPI   | \$83.98  | \$83.06              | \$87.80    | \$84.35       | \$109.71                   |
| 7/28/2016  | Sell      | ILMN   | \$166.25 | \$162.05             | \$167.03   | \$166.42      | \$171.97                   |
| 7/28/2016  | Sell      | FB     | \$125.06 | \$123.63             | \$128.33   | \$125.00      | \$164.53                   |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 7/28/2016  | Sell      | TWOU   | \$35.04  | \$34.68              | \$36.00    | \$34.85       | \$50.00                       |
| 7/28/2016  | Sell      | CERS   | \$6.84   | \$6.72               | \$7.01     | \$6.97        | \$2.21                        |
| 7/28/2016  | Sell      | RHT    | \$73.92  | \$73.68              | \$74.50    | \$74.43       | \$98.92                       |
| 7/28/2016  | Buy       | TREE   | \$95.39  | \$91.85              | \$105.77   | \$102.29      | \$180.90                      |
| 7/28/2016  | Buy       | NTDOY  | \$25.15  | \$24.92              | \$25.39    | \$25.01       | \$41.53                       |
| 7/28/2016  | Buy       | NXPI   | \$84.10  | \$83.06              | \$87.80    | \$84.35       | \$109.71                      |
| 7/28/2016  | Sell      | FB     | \$124.96 | \$123.63             | \$128.33   | \$125.00      | \$164.53                      |
| 7/28/2016  | Sell      | CRM    | \$82.38  | \$81.70              | \$82.72    | \$82.33       | \$90.54                       |
| 7/28/2016  | Buy       | NOW    | \$76.62  | \$74.15              | \$78.77    | \$76.38       | \$109.84                      |
| 7/27/2016  | Buy       | TWTR   | \$16.39  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | NTDOY  | \$24.99  | \$24.65              | \$26.38    | \$26.24       | \$41.53                       |
| 7/27/2016  | Buy       | TWTR   | \$16.06  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | TWTR   | \$16.25  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | TWTR   | \$16.52  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | NTDOY  | \$25.82  | \$24.65              | \$26.38    | \$26.24       | \$41.53                       |
| 7/27/2016  | Sell      | FB     | \$122.23 | \$121.51             | \$125.00   | \$123.34      | \$164.53                      |
| 7/27/2016  | Sell      | SPLK   | \$59.33  | \$59.13              | \$60.25    | \$59.50       | \$61.56                       |
| 7/27/2016  | Sell      | CRM    | \$81.49  | \$81.05              | \$82.12    | \$81.50       | \$90.54                       |
| 7/27/2016  | Sell      | TWOU   | \$35.01  | \$34.90              | \$35.58    | \$35.25       | \$50.00                       |
| 7/27/2016  | Buy       | TWTR   | \$16.39  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | AKAM   | \$51.10  | \$47.80              | \$51.44    | \$50.51       | \$52.36                       |
| 7/27/2016  | Buy       | NTDOY  | \$24.96  | \$24.65              | \$26.38    | \$26.24       | \$41.53                       |
| 7/27/2016  | Buy       | TWTR   | \$16.11  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | AKAM   | \$49.33  | \$47.80              | \$51.44    | \$50.51       | \$52.36                       |
| 7/27/2016  | Buy       | TWTR   | \$16.25  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | TWTR   | \$16.50  | \$15.69              | \$16.59    | \$15.77       | \$20.53                       |
| 7/27/2016  | Buy       | NTDOY  | \$25.83  | \$24.65              | \$26.38    | \$26.24       | \$41.53                       |
| 7/27/2016  | Sell      | FB     | \$122.18 | \$121.51             | \$125.00   | \$123.34      | \$164.53                      |
| 7/27/2016  | Sell      | AMBA   | \$58.68  | \$57.59              | \$59.87    | \$58.00       | \$51.35                       |
| 7/27/2016  | Sell      | SPLK   | \$59.40  | \$59.13              | \$60.25    | \$59.50       | \$61.56                       |
| 7/27/2016  | Sell      | RHT    | \$73.75  | \$73.51              | \$75.34    | \$73.64       | \$98.92                       |
| 7/27/2016  | Sell      | CRM    | \$81.40  | \$81.05              | \$82.12    | \$81.50       | \$90.54                       |
| 7/26/2016  | Buy       | KITE   | \$52.25  | \$51.14              | \$52.44    | \$52.00       | \$109.89                      |
| 7/26/2016  | Buy       | GILD   | \$81.58  | \$80.51              | \$84.15    | \$81.05       | \$73.42                       |
| 7/26/2016  | Buy       | INO    | \$9.25   | \$9.17               | \$9.74     | \$9.55        | \$6.01                        |
| 7/26/2016  | Sell      | BIIB   | \$287.95 | \$285.47             | \$289.95   | \$287.04      | \$281.44                      |
| 7/26/2016  | Sell      | CERS   | \$6.64   | \$6.61               | \$6.75     | \$6.63        | \$2.21                        |
| 7/26/2016  | Buy       | KITE   | \$52.20  | \$51.14              | \$52.44    | \$52.00       | \$109.89                      |
| 7/26/2016  | Sell      | SCHW   | \$28.59  | \$28.03              | \$28.69    | \$28.65       | \$42.14                       |
| 7/26/2016  | Sell      | FMI    | \$22.32  | \$21.71              | \$22.72    | \$22.45       | \$38.00                       |
| 7/26/2016  | Buy       | UA/C   | \$37.57  | \$36.51              | \$39.42    | \$37.50       | #N/A Real Time                |
| 7/26/2016  | Sell      | TCEHY  | \$24.01  | \$23.87              | \$24.12    | \$24.11       | \$38.16                       |
| 7/26/2016  | Buy       | AVAV   | \$28.15  | \$27.45              | \$28.26    | \$27.94       | \$38.11                       |
| 7/26/2016  | Buy       | DDD    | \$13.17  | \$12.81              | \$13.30    | \$13.25       | \$17.60                       |
| 7/26/2016  | Buy       | MTLS   | \$7.00   | \$6.86               | \$7.01     | \$6.93        | \$13.33                       |
| 7/26/2016  | Buy       | PRLB   | \$60.04  | \$59.54              | \$60.67    | \$60.65       | \$70.60                       |
| 7/26/2016  | Buy       | QCOM   | \$61.12  | \$60.77              | \$61.50    | \$61.35       | \$53.97                       |
| 7/26/2016  | Buy       | VLKAY  | \$29.11  | \$29.06              | \$29.31    | \$29.14       | \$33.71                       |
| 7/26/2016  | Buy       | XONE   | \$10.50  | \$10.30              | \$10.59    | \$10.57       | \$11.42                       |
| 7/26/2016  | Sell      | ARMH   | \$66.07  | \$65.84              | \$66.35    | \$66.23       | #N/A Real Time                |
| 7/25/2016  | Buy       | NTDOY  | \$25.34  | \$25.20              | \$27.39    | \$25.65       | \$41.53                       |
| 7/25/2016  | Sell      | RHT    | \$73.53  | \$73.10              | \$73.99    | \$73.54       | \$98.92                       |

| ARK Trades |           |        |          | Market on Trade Date |            |               | Recent Market Price           |
|------------|-----------|--------|----------|----------------------|------------|---------------|-------------------------------|
| Date       | Direction | Ticker | Price    | Low Price            | High Price | Closing Price | Last Price As of<br>7/20/2017 |
| 7/25/2016  | Sell      | NVDA   | \$55.79  | \$54.76              | \$55.81    | \$55.68       | \$167.50                      |
| 7/25/2016  | Buy       | NTDOY  | \$25.41  | \$25.20              | \$27.39    | \$25.65       | \$41.53                       |
| 7/25/2016  | Buy       | SFTBY  | \$24.80  | \$24.51              | \$25.82    | \$25.74       | \$41.45                       |
| 7/25/2016  | Sell      | FB     | \$120.95 | \$117.78             | \$121.85   | \$121.63      | \$164.53                      |
| 7/25/2016  | Sell      | RHT    | \$73.55  | \$73.10              | \$73.99    | \$73.54       | \$98.92                       |
| 7/25/2016  | Sell      | NVDA   | \$55.75  | \$54.76              | \$55.81    | \$55.68       | \$167.50                      |
| 7/22/2016  | Buy       | ATHN   | \$125.32 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Buy       | NTDOY  | \$29.25  | \$27.75              | \$30.00    | \$29.00       | \$41.53                       |
| 7/22/2016  | Buy       | ATHN   | \$120.50 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Sell      | TWOU   | \$34.39  | \$33.71              | \$34.52    | \$34.51       | \$50.00                       |
| 7/22/2016  | Sell      | FB     | \$120.54 | \$119.31             | \$121.01   | \$121.00      | \$164.53                      |
| 7/22/2016  | Sell      | RHT    | \$73.52  | \$72.22              | \$73.71    | \$73.47       | \$98.92                       |
| 7/22/2016  | Sell      | MDSO   | \$51.61  | \$50.86              | \$51.86    | \$51.63       | \$75.78                       |
| 7/22/2016  | Sell      | NEWR   | \$33.80  | \$33.22              | \$33.99    | \$33.91       | \$47.70                       |
| 7/22/2016  | Sell      | SPLK   | \$59.29  | \$57.88              | \$59.49    | \$59.40       | \$61.56                       |
| 7/22/2016  | Buy       | ATHN   | \$125.50 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Buy       | ATHN   | \$120.50 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Sell      | MDSO   | \$51.63  | \$50.86              | \$51.86    | \$51.63       | \$75.78                       |
| 7/22/2016  | Buy       | ATHN   | \$125.50 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Buy       | ATHN   | \$120.50 | \$120.00             | \$126.00   | \$124.92      | \$143.80                      |
| 7/22/2016  | Buy       | NTDOY  | \$28.72  | \$27.75              | \$30.00    | \$29.00       | \$41.53                       |
| 7/22/2016  | Sell      | ARMH   | \$65.77  | \$65.71              | \$66.04    | \$66.03       | #N/A Real Time                |
| 7/21/2016  | Buy       | BOX    | \$10.94  | \$10.60              | \$10.97    | \$10.61       | \$19.73                       |
| 7/21/2016  | Buy       | GOOG   | \$739.98 | \$735.83             | \$741.69   | \$738.63      | \$968.15                      |
| 7/21/2016  | Sell      | ARMH   | \$66.35  | \$66.03              | \$66.49    | \$66.16       | #N/A Real Time                |
| 7/21/2016  | Buy       | PTC    | \$41.00  | \$40.04              | \$41.41    | \$40.17       | \$54.10                       |
| 7/21/2016  | Sell      | ARMH   | \$66.15  | \$66.03              | \$66.49    | \$66.16       | #N/A Real Time                |
| 7/21/2016  | Buy       | QCOM   | \$60.01  | \$59.13              | \$60.47    | \$59.93       | \$53.97                       |
| 7/21/2016  | Sell      | ARMH   | \$66.08  | \$66.03              | \$66.49    | \$66.16       | #N/A Real Time                |