

## Market Structure Report

04-08-2024

## Lega

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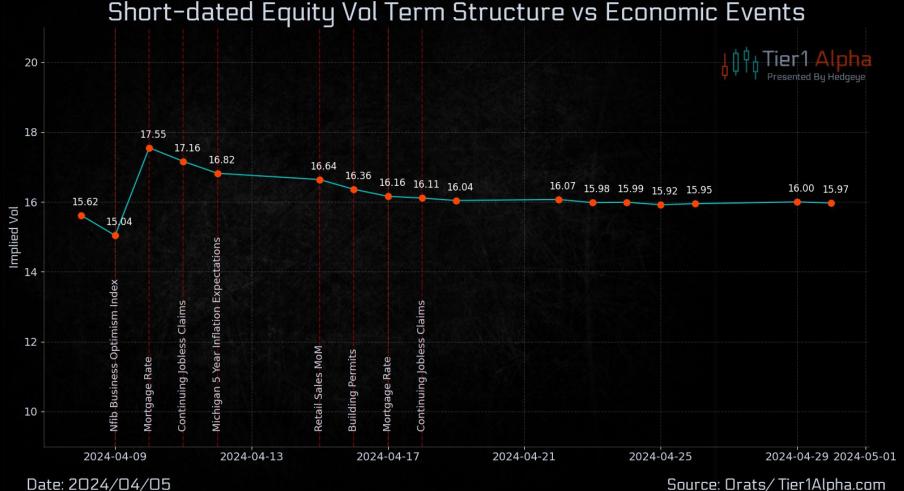
### Summary:



- Last Friday's market reversal was another classic example of how negative gamma flows can amplify volatility in both directions, as dealers were forced to chase the market higher.
- Despite the reversal, there was still a notable demand for downside protection last Friday, as evidenced by the increase in implied vol skew and elevated Put option premiums.
- This further suggests the move in SPX was mostly in response to dealers hedging their short gamma exposure to the upside rather than a fundamental shift in market sentiment.
- Dealers will start the week off in negative gamma, which implies the
  conditions for higher volatility are still in place. However, given how
  close the spot SPX is to our gamma flipping point at the 5228 strike,
  these Vol-supplying flows will likely have a more pronounced impact on
  the downside, while an upside move would place dealers back into a
  neutral position.

- For today, our SPX Probable Volatility bands suggest the trading range will stay between the 5238 level to the downside and the 5275 strike to the topside. We expect these levels to hold until Wednesday, at which time the latest CPI data could set a new trend.
- The most significant strikes in play are the 5150 strike to the downside, the 5200 strike in the middle, and the 5250 strike, which is near the upper end of our bands
- Friday served as another subtle reminder that upside volatility is *STILL* volatility. While we initially anticipated a modest decrease in the 1-month vol, negative dealer gamma prevailed instead, pushing it approximately 1% higher.

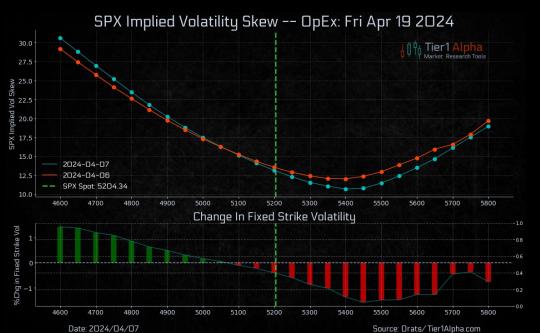
| Volatility Regime:   | Low     | Neutral | High    |  |
|----------------------|---------|---------|---------|--|
| Flow Risk:           | Bullish | Neutral | Bearish |  |
| PV Band Risk/Reward: | Long    | Neutral | Short   |  |



Source: Orats/Tier1Alpha.com

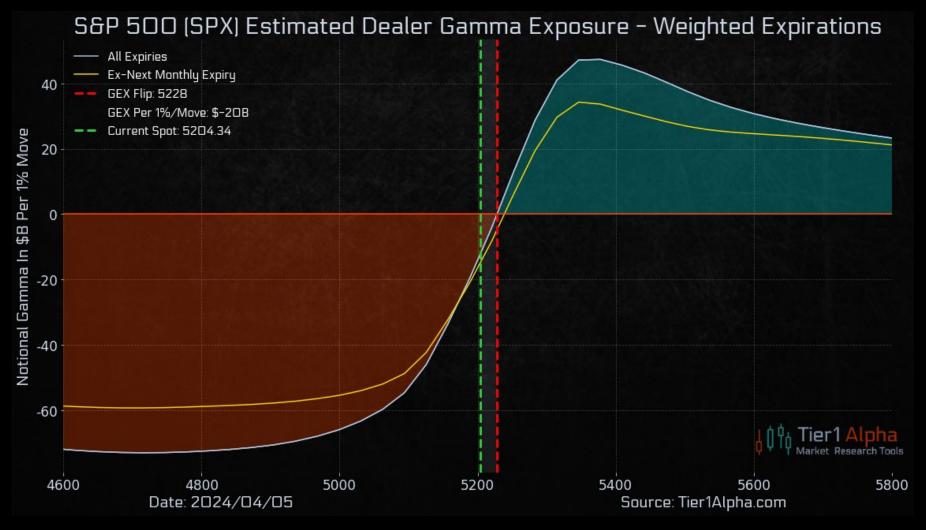
#### Economic Event Calendar With Short-Dated Options Positioning

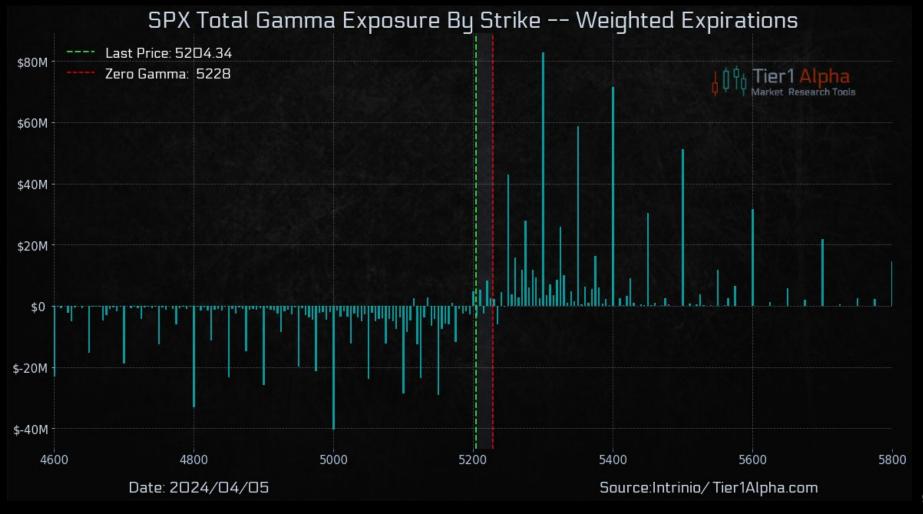
| Date       | Event                          | Estimate | Previous | Impact | Call IV | Put IV | SPX IV | Expected Move | P/C Vol | P/C OI |
|------------|--------------------------------|----------|----------|--------|---------|--------|--------|---------------|---------|--------|
| 2024-04-09 | Nfib Business Optimism Index   |          | 89.4     | low    | 14.54   | 16.11  | 15.32  | +/- 1.13%     | 1.87    | 2.63   |
| 2024-04-09 | <b>Economic Optimism Index</b> |          | 43.5     | medium | 14.54   | 16.11  | 15.32  | +/- 1.13%     | 1.87    | 2.63   |
| 2024-04-10 | Mortgage Rate                  |          | 6.91     | low    | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | Mortgage Applications          |          | -0.6     | low    | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | MBA Mortgage Refinance Index   |          | 453.5    | low    | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | MBA Purchase Index             |          | 145.6    | low    | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | Core Inflation Rate MoM        | 0.3      | 0.4      | high   | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | Core Inflation Rate            | 3.7      | 3.8      | high   | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | Inflation Rate Mom             | 0.3      | 0.4      | high   | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-10 | Inflation Rate                 | 3.4      | 3.2      | high   | 17.37   | 18.24  | 17.81  | +/- 1.61%     | 1.95    | 2.24   |
| 2024-04-11 | Continuing Jobless Claims      |          | 1791.0   | low    | 17.64   | 17.23  | 17.43  | +/- 1.82%     | 1.75    | 2.23   |
| 2024-04-11 | Initial Jobless Claims         | 215.0    | 221.0    | medium | 17.64   | 17.23  | 17.43  | +/- 1.82%     | 1.75    | 2.23   |



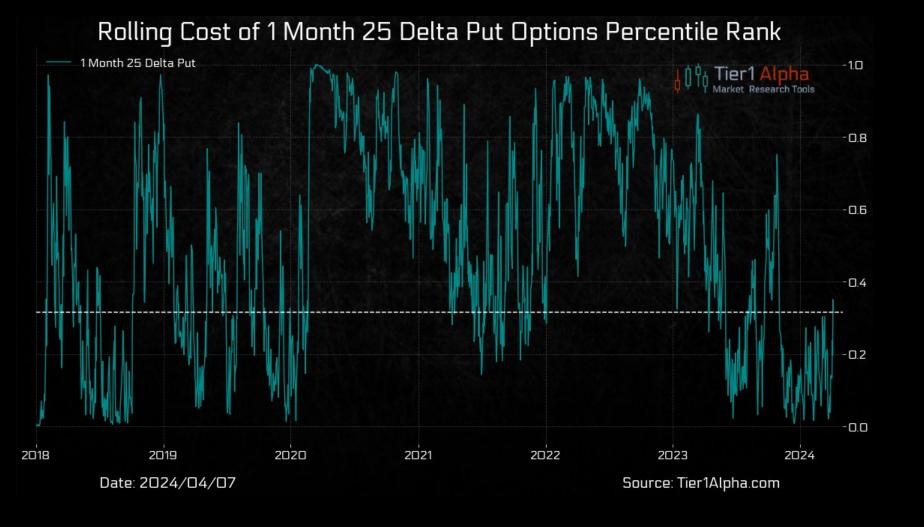
| SPX Implied Volatility with Fixed Strike Vol |                 |            |             |            |                 |            |  |
|--|-----------------|------------|-------------|------------|-----------------|------------|--|
|  | Fri Apr 19 2024 |            | _           | 17 2024    | Fri Jun 21 2024 |            |  |
| Strike                                       | Implied Vol     | FSV Change | Implied Vol | FSV Change | Implied Vol     | FSV Change |  |
| 4700.0                                       | 26.98           |            | 20.43       | 0.57       |                 | 0.56       |  |
| 4750.0                                       | 25.22           | 1.09       | 19.56       | 0.54       | 19.31           | 0.53       |  |
| 4800.0                                       | 23.48           | 0.86       | 18.74       | 0.57       | 18.64           | 0.52       |  |
| 4850.0                                       | 21.78           | 0.63       | 17.9        | 0.5        | 17.97           | 0.49       |  |
| 4900.0                                       | 20.24           | 0.49       | 17.11       | 0.45       | 17.32           | 0.46       |  |
| 4950.0                                       | 18.81           | 0.31       | 16.34       | 0.43       | 16.69           | 0.43       |  |
| 5000.0                                       | 17.48           | 0.17       | 15.59       | 0.33       | 16.06           | 0.38       |  |
| 5050.0                                       | 16.29           |            | 14.89       | 0.28       | 15.48           | 0.37       |  |
| 5100.0                                       | 15.15           | -0.1       | 14.23       | 0.22       | 14.91           | 0.33       |  |
| 5150.0                                       | 14.1            |            | 13.62       | 0.15       | 14.37           | 0.26       |  |
| 5200.0                                       | 13.14           |            | 13.03       | 0.01       | 13.86           | 0.2        |  |
| 5250.0                                       | 12.29           |            | 12.54       |            | 13.25           | 0.0        |  |
| 5300.0                                       | 11.54           | -0.86      | 12.1        | -0.14      | 12.96           | 0.09       |  |
| 5350.0                                       | 11.05           |            | 11.72       | -0.24      | 12.57           | 0.04       |  |
| 5400.0                                       | 10.66           |            | 11.4        | -0.36      | 12.22           |            |  |
| 5450.0                                       | 10.78           |            | 11.2        | -0.4       | 11.92           |            |  |
| 5500.0                                       | 11.46           |            | 11.06       | -0.49      | 11.67           |            |  |
| 5550.0                                       | 12.4            |            | 10.99       |            | 11.48           |            |  |
| 5600.0                                       | 13.5            |            | 11.11       | -0.65      | 11.36           | -0.26      |  |
| 5650.0                                       | 14.66           |            | 11.26       |            | 11.27           |            |  |
| 5700.0                                       | 16.12           |            | 11.57       |            | 11.24           | -0.36      |  |

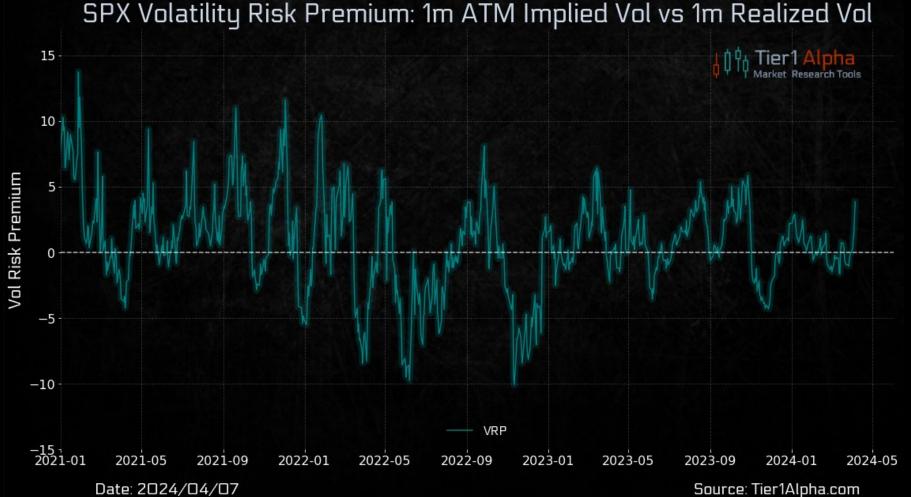


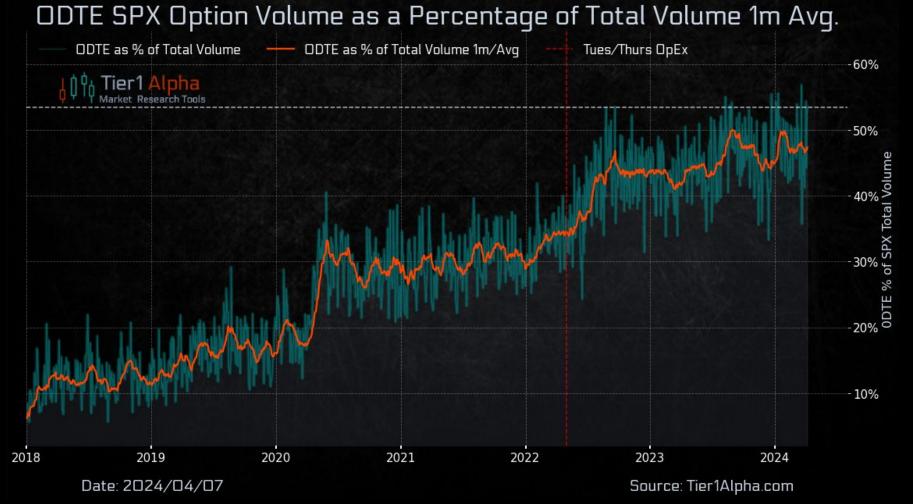
















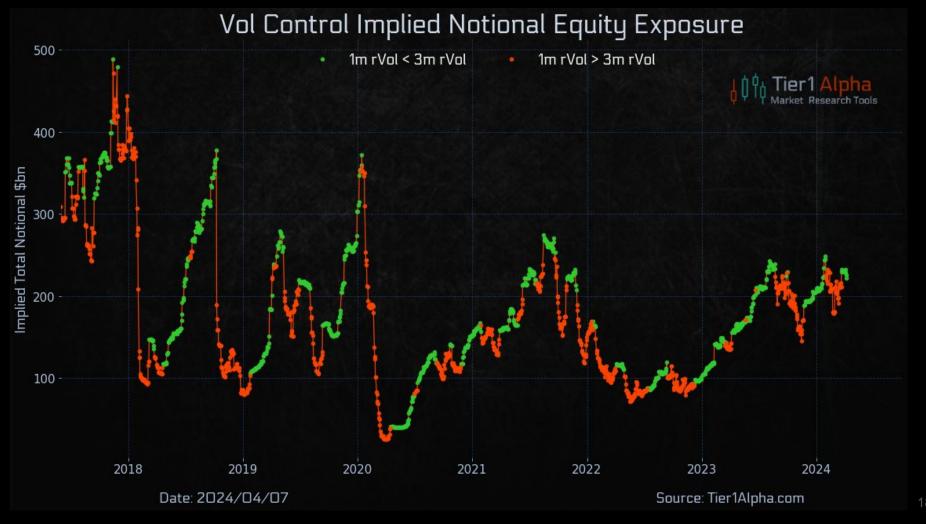
Date: 2024/04/05 Source: Intrinio/ Tier1Alpha.com

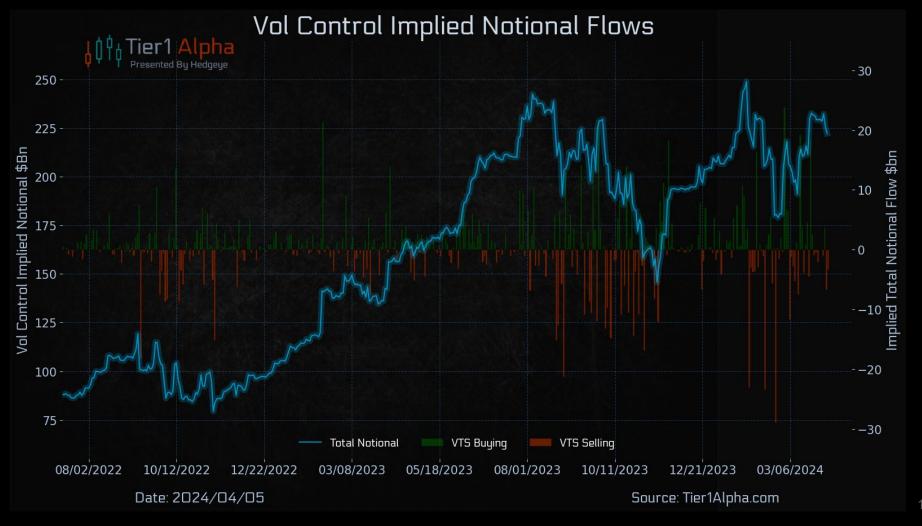
## Quant Fund Flows Summary:



- Although the move was not significant enough to push the 1-month vol above the 3-month volatility, it considerably narrowed the spread between the two, which places Vol control funds in an interesting position for two reasons.
- First, we expect there to be a large decrease in the 3-month volatility today, as it drops a 1.4% return from its trailing sample window. Secondly, we expect an uptick in volatility surrounding the upcoming CPI event this Wednesday, potentially causing the 1-month volatility to increase, which would compress the spread even further.
- While we had not anticipated it so soon, these combined dynamics mean we're officially back on crossover watch, which, if it occurs, would place volatility control funds back into a higher-risk regime.
- In our opinion, this is a dangerous setup to have ahead of a macro catalyst like CPI, especially if dealers remain in negative gamma, which could supply enough volatility to force systematic funds to aggressively deleverage their equity positions.
- For today, however, expect to see some supportive inflows as long as SPX can stay within a +/- 1% move. On a flat market, we could even see as much as \$5.8 billion in buying requirements be triggered, but at this point in the cycle, all that buying means more potential selling pressure down the line.

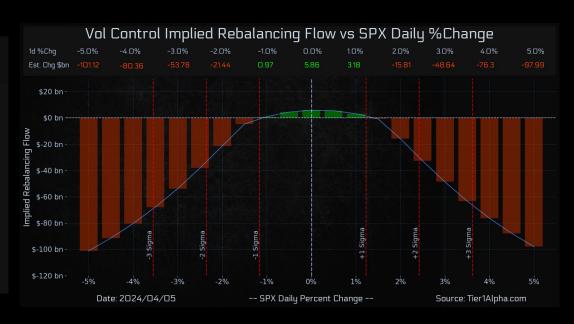




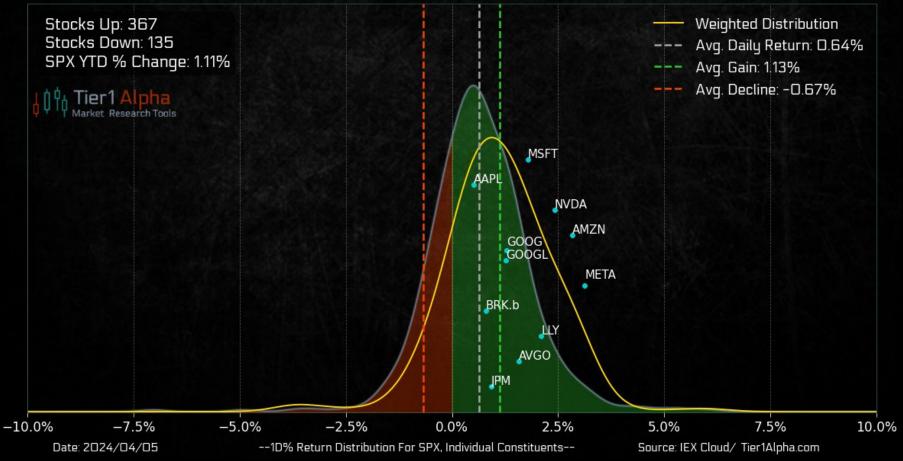


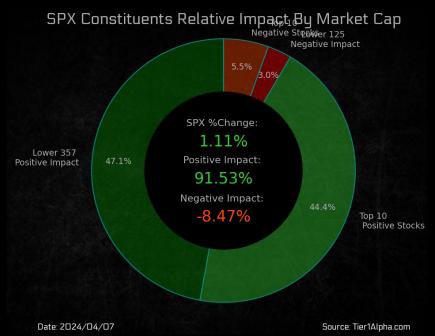


| SPX Realized Vol Data In Sample for 2024-04-08 |            |           |            |           |  |  |
|--|------------|-----------|------------|-----------|--|--|
| Dropoff  | 1m Dates   | 1m Drop % | 3m Dates   | 3m Drop % |  |  |
| T+1  | 2024-03-08 | -0.6%     | 2024-01-08 | 1.4%      |  |  |
| T+2  | 2024-03-11 | -0.1%     | 2024-01-09 | -0.2%     |  |  |
| T+3  | 2024-03-12 | 1.1%      | 2024-01-10 | 0.6%      |  |  |
| T+4  | 2024-03-13 | -0.2%     | 2024-01-11 | -0.1%     |  |  |
| T+5  | 2024-03-14 | -0.3%     | 2024-01-12 | 0.1%      |  |  |
| T+6  | 2024-03-15 | -0.6%     | 2024-01-16 | -0.4%     |  |  |
| T+7  | 2024-03-18 | 0.6%      | 2024-01-17 | -0.6%     |  |  |
| T+8  | 2024-03-19 | 0.6%      | 2024-01-18 | 0.9%      |  |  |
| T+9  | 2024-03-20 | 0.9%      | 2024-01-19 | 1.2%      |  |  |
| T+10   | 2024-03-21 | 0.3%      | 2024-01-22 | 0.2%      |  |  |



#### S&P 500 MBAD Indicator for 2024/04/05





| SPX Constituents Relative Impact By Market Cap |                  |                    |          |                         |                    |                    |            |  |  |
|--|------------------|--------------------|----------|-------------------------|--------------------|--------------------|------------|--|--|
| L  | argest Pos       | sitive Impac       | :t       | Largest Negative Impact |                    |                    |            |  |  |
| Top<br>Contributor                             | Daily<br>%Return | Positive<br>Impact | % Weight | Top<br>Detractor        | Daily<br>%Return.1 | Negative<br>Impact | % Weight.1 |  |  |
| MSFT   | 1.8%             | 9.8%               | 7.17%    | TSLA                    | -3.6%              | -3.0%              | 1.1%       |  |  |
| NVDA   | 2.4%             | 9.3%               | 5.07%    | INTC                    | -2.6%              | -0.8%              | 0.43%      |  |  |
| AMZN   | 2.8%             | 7.9%               | 3.76%    | MCD                     | -1.3%              | -0.4%              | 0.46%      |  |  |
| META   | 3.2%             | 5.9%               | 2.46%    | VZ                      | -0.8%              | -0.2%              | 0.4%       |  |  |
| LLY  | 2.1%             | 2.2%               | 1.38%    | ENPH                    | -7.0%              | -0.2%              | 0.04%      |  |  |
| GOOGL  | 1.3%             | 2.0%               | 2.08%    | Т                       | -0.9%              | -0.2%              | 0.28%      |  |  |
| GE   | 6.0%             | 1.9%               | 0.43%    | PM                      | -0.7%              | -0.2%              | 0.32%      |  |  |
| AAPL   | 0.4%             | 1.9%               | 5.61%    | TXN                     | -0.6%              | -0.2%              | 0.36%      |  |  |
| GOOG   | 1.3%             | 1.7%               | 1.75%    | ADBE                    | -0.4%              | -0.2%              | 0.52%      |  |  |
| AVGO   | 1.7%             | 1.7%               | 1.35%    | SBUX                    | -0.9%              | -0.2%              | 0.24%      |  |  |

#### S&P 500 Percent of Stocks Above 200 Day Moving Average





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