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Should Investors Sell After a “Correction”?

Stock prices in markets around the world fluctuated dramatically for the week ended August 27. On Monday, August 24, the Dow Jones Industrial Average fell 1,089 points—a larger loss than the “Flash Crash” in May 2010—before rallying to close down 588. Prices fell further on Tuesday before recovering sharply on Wednesday, Thursday, and Friday. Although the S&P 500 and Dow Jones Industrial Average rose 0.9% and 1.1%, respectively, for the week, many investors found the dramatic day-to-day fluctuations unsettling.

Based on closing prices, the S&P 500 Index declined 12.35% from its record high of 2130.82 on May 21 through August 24. Financial professionals generally describe any decline of 10% or more from a previous peak as a “correction,” although it is unclear what investors should do with this information. Should they seek to protect themselves from further declines by selling, or should they consider it an opportunity to purchase stocks at more favorable prices?

Based on S&P 500 data, stock prices have declined 10% or more on 28 occasions between January 1926 and June 2015. Obviously, every decline of 20% or 30% or 40% began with a decline of 10%. As a result, some investors believe that avoiding large losses can

be accomplished easily by eliminating equity exposure entirely once the 10% threshold has been breached.

Market timing is a seductive strategy. If we could sell stocks prior to a substantial decline and hold cash instead, our long-run returns could be exponentially higher. But successful market timing is a two-step process: determining when to sell stocks and when to buy them back. Avoiding short-term losses runs the risk of avoiding even larger long-term gains. Regardless of whether stock prices have advanced 10% or declined 10% from a previous level, they always reflect (1) the collective assessment of the future by millions of market participants and (2) the expectation that equities in both the US and markets around the world have positive expected returns.

Exhibit 1 below shows that US stocks have typically delivered above-average returns over one, three, and five years following consecutive negative return days resulting in a 10% or more decline. Results from non-US markets are similar.

Contrary to the beliefs of some investors, dramatic changes in security prices are not a sign that the financial system is broken but rather what we would expect to see if markets

are working properly. The world is an uncertain place. The role of securities markets is to reflect new developments—both positive and negative—in security prices as quickly as possible. Investors who accept dramatic price fluctuations as a characteristic of liquid markets may have a distinct advantage over those who are easily frightened or confused by day-to-day events and are more likely to achieve long-run investing success.

Exhibit 1: Returns after Corrections

| US LARGE CAP: JANUARY 1926–JUNE 2015 | | | | Annualized Compound Return | | |
|--------------------------------------|----------------------------|---|---------------------------|----------------------------|------------------|------------------|
| Cutoff for Decline | Frequency of Such Declines | Avg. Horizon for Decline (Trading Days) | Avg. Magnitude of Decline | for Next 1 Year | for Next 3 Years | for Next 5 Years |
| 5% | 262 | 4.1 | -7.55% | 13.24% | 9.43% | 10.02% |
| 10% | 28 | 4.6 | -14.25% | 23.56% | 8.89% | 13.33% |

Unconditional annualized compound return for full sample is 9.32%.

| INTERNATIONAL LARGE CAP: JANUARY 2001–JUNE 2015 | | | | Annualized Compound Return | | |
|---|----------------------------|---|---------------------------|----------------------------|------------------|------------------|
| Cutoff for Decline | Frequency of Such Declines | Avg. Horizon for Decline (Trading Days) | Avg. Magnitude of Decline | for Next 1 Year | for Next 3 Years | for Next 5 Years |
| 5% | 58 | 4.8 | -7.71% | 17.30% | 9.03% | 9.38% |
| 10% | 9 | 5.6 | -13.33% | 24.73% | 12.69% | 12.89% |

Unconditional annualized compound return for full sample is 4.05%.

| EMERGING MARKETS: JANUARY 1926–JUNE 2015 | | | | Annualized Compound Return | | |
|--|----------------------------|---|---------------------------|----------------------------|------------------|------------------|
| Cutoff for Decline | Frequency of Such Declines | Avg. Horizon for Decline (Trading Days) | Avg. Magnitude of Decline | for Next 1 Year | for Next 3 Years | for Next 5 Years |
| 5% | 74 | 4.8 | -8.12% | 24.82% | 11.84% | 10.33% |
| 10% | 15 | 5.5 | -14.04% | 42.23% | 13.36% | 11.20% |

Unconditional annualized compound return for full sample is 9.49%.

Declines are defined as periods with consecutive days of negative index returns with cumulative losses at or above the cutoff. Annualized compound returns are averages across all declines. US Large Cap is the S&P 500 Index, provided by Standard & Poor's Index Services Group. International Large Cap is the MSCI World ex USA Index. Emerging Markets is the MSCI Emerging Markets Index. MSCI data © MSCI 2014, all rights reserved. Past performance is not a guarantee of future results. Indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the management of an actual portfolio.

REFERENCES

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