# Initial Public Offerings: Is There Money Left on the Table? Comparative Study of the Top Five IPOs in Poland and the United States 

## Introduction

Initial public offerings (IPO) have been attracting remarkable public attention since the late 1990s, especially during the dotcom bubble years. Despite their positive role in creating new companies, IPOs have been connected with many controversies and unsolved questions. Because of that, IPOs have been a subject of significant academic attention, and most articles have been focused on the major issues relating to: hot markets, underpricing, and long-run performance.

This paper presents a theoretical overview, supported by an empirical study, based on the largest IPOs in Poland and the US, between 2000 and 2005, focusing on the underpricing and the long-run performance phenomenon. The observed period was chosen particularly in order to avoid the dotcom bubble and the financial crises years. Thus, the period was chosen in order to avoid the data being affected by the positive effects of the dotcom bubble, characterized by spectacular returns, as well to avoid the data being affected by the negative effects of the financial crises, characterized by a significant and sudden decrease in the stock market capitalizations.

Poland was chosen for the study because of its remarkable performance during the crisis, and because of the fact that Poland has built a successful financial sector, which has gained the importance extending beyond the national level. The US was, on the other hand, chosen because it remains the biggest IPO market in the world. Between 2008 and 2011, Polish economy grew by $15.7 \%$, while the average growth for the European Union was $-0.5 \%$. Poland has a very successful stock exchange - the Warsaw Stock Exchange (WSE), which accounts for more than a half of the central Europe's share trading vol-

[^0]ume. Therefore, the Polish stock exchange provides an appropriate framework, as well as sufficient liquidity, to attract not only Polish companies, but also big regional players.

The empirical evidences and the results confirm the presence of the "leaving money on the table" hypothesis, in both countries. However, in the analysis of the long-term performance, the findings are not, especially in the case of the US companies going public, in accordance with the related results of the main academic research. Namely, the findings do not support the long-term underpricing phenomenon.

An initial public offering is a financial event, and its importance is greater than just the importance for the company going public. It can be a major tool for developing financial markets and conducting privatization. Thus, many successful IPO stories are linked to the emerging and developing markets. Although the US market is still the largest market for IPOs, interestingly, the largest IPO, in history, was not the one of a U.S. company. In fact, the Chinese Agricultural Bank in 2010 raised a record setting $\$ 22.1$ billion. As far as the Polish IPO market goes, the largest IPO in 2010 in Europe, was Powszechny Zakład Ubezpieczeń (PZU). The size of the IPO markets in Poland and the US from 2000 to 2005 are presented in the Tables 1 and 2 below.

Table 1
The US IPO Data (1.1.2000-31.12.2005)

|  | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of firms | 139 | 48 | 45 | 60 | 138 | 146 |
| IPO size (\$ million) | $17,120.6$ | $24,971.8$ | $6,103.7$ | $8,272.9$ | $25,012.8$ | $26,373.4$ |

Source: Bloomberg, 2012
Table 2
Poland IPO data (1.1.2000-31.12.2005)

|  | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of firms | 8 | 4 | 1 | 4 | 23 | 27 |
| IPO size (\$ million) | 435.3 | 55.8 | 20.0 | 312.1 | $8,230.1$ | $6,099.4$ |

Source: Bloomberg, 2012
The mechanism of how IPOs are conducted is also important for the discussion. The pressure arises from the structural conflict of interest between the three main parties in the IPO process: the issuing firm, the investment bank responsible for underwriting the offering, and the investors. The mechanisms of how the stocks are priced and allocated to investors are defined by national regulations and rules.

Selecting the appropriate underwriter is essential for a successful IPO. In the case of small and young companies, the reputation and experience of the underwriter can be a very important factor for potential investors in an IPO. Kleeburg (2005) suggested that the preliminary evaluation of a company's investment bankers, auditors, and lawyers, had to include the following criteria: experience, reputation, syndication, distribution capacity, and the aftermarket support. The following data depict the size of the underwriters market. From 1.1.2000 to 31.12 .2005 , there were 150 underwriters in the US, which managed to conduct 3,590 issues and generate a fee income of $\$ 701,147.24$ million, or $6.34 \%$ fee on average ${ }^{1}$.

[^1]In EMEA (Europe, Middle East, and Africa), there were 334 underwriters responsible for 2,558 issues. They charged, on average, $3.27 \%$ fee, and generated $\$ 655,229.37$ million in income ${ }^{2}$.

## 1. Theoretical Background

Over the years, the substantial research on the IPO performance has been conducted. The well-documented three "anomalies" of IPOs are: underpricing, hot issue markets, and long-run performance. The short run underpricing of IPOs has been well-documented, but the long-run IPOs performance has not. In the case of the underpricing, money is clearly "left on the table", since the investors would have been ready to buy the same stocks at a higher price. When the degree of the underpricing is higher, companies going public receive less money for selling stocks to the market, raising the cost of capital of those firms. However, the threat of overpricing is also an important issue. If a stock is offered to the public at a higher price than the market would be ready to pay for it, it puts the underwriters in a tough position to fulfill the undertaken commitment to sell the stocks. Moreover, the danger of a price decline in the stock value, on the first day of trading, is high even if the underwriter has managed to sell all of the issued stocks.

The underpricing of initial public offerings has been well observed in different markets, and in different time periods. Ibbotson (1975) analyzed the initial and aftermarket performance of the newly issued IPOs during the 1960s. The results confirmed that new issue IPOs were underpriced or "aftermarket efficient", meaning that the initial average performance was positive, or that the starting prices were $11.4 \%$ higher than the offering prices. Ritter (1984) observed around 5,000 firms, which went public during the period from 1960 to 1982 in the US, and concluded that their stocks, shortly after the public trading started, traded at the prices. $18.8 \%$ higher than the offering prices. Also, according to Rock (1986), the issuer must underprice the shares in order to attract uninformed investors. On the other hand, Beatty and Ritter (1986) argued that there was a stable relationship between the expected underpricing of an IPO and the ex-ante unpredictability of its value (or as they called it, "ex-ante uncertainty").

Liu and Ritter (2011) concluded that, despite the large number of investment banking firms, the IPO underwriting market is characterized as a local oligopoly, mainly because the issuers favor non-price elements. They revealed that IPOs were more underpriced if the underwriters had better quality of service, or if they had more industry experience. Furthermore, Engelen and Essen (2010) used a large dataset of 2,920 IPOs, from 21 countries, from the period 2000-2005, in order to observe the impact of legal and institutional conditions on the IPO underpricing. Generally, the underpricing of IPOs occurred worldwide. However, specific characteristics contribute to $10 \%$ of the variation in the level of underpricing. More interestingly, they found that companies going public, in a country with an advanced legal system (i.e. better investor protection, quality and level of legal enforcement, etc.), on average, left less "money on the table" while undertaking IPOs. Lastly, Rajan and Servaes (1997) studied a sample of IPOs, between 1975 and 1987, and examined the effect of the analysts following IPOs. They find that a "higher underpricing leads to an increased following". The main point here is that if a company spent more time preparing for an IPO, a greater number of analysts followed the issue.

[^2]
## 2. Empirical Analysis and Findings

The data for the research consists of the secondary data, mainly: the IPO data, equity prices data, and the benchmark indexes values. The data was extracted from the Bloomberg IPO database. The main criteria, for the sample selection, were that all the companies went through an IPO, from 1.1.2000 to 31.12.2005, and that the companies were listed on the Polish and the US stock exchanges. The data was arranged in order to select the five largest IPOs (using the following criteria: the number of the offered shares times the price of the offered shares) in both countries, per year.

The benchmark indexes were selected in order to find out whether an investing in an IPO, or alternatively, in a chosen benchmark index, would be a better option from the financial standpoint. The indexes were influenced by various factors, such as different economic cycles and country specific economic fundamentals, but in general, one can discover the common trends and periods of significant correlation which is, of course, the outcome of the economic globalization and integration. The following Indexes had been chosen: the Standard and Poor's. 500 Index (SPX Index USD) - a capitaliza-tion-weighted index of US 500 stocks, and the Warsaw Stock Exchange WIG INDEX - a total return index, which includes all companies listed on the main market, excluding foreign companies and investment funds.

The analysis of the IPO's first day of trading performance is measured by an increase in the share price, from the offer to the closing price, at the first trading day. The "money left on the table" amount is calculated as the nominal price increase on the first day of the trading times the number of the offered shares. The long term IPO share performance was compared to the relevant benchmark index, calculated in the same way. Basically, the first three years' performance was calculated as follows:

$$
\text { Return }=(\mathrm{EEP}-\mathrm{BEP}) / \mathrm{BEP},
$$

where:
EEP - ending equity/benchmark price (after three years closing equity/benchmark price) BEP - beginning equity/benchmark price (first day of trading closing equity/benchmark price)
The underpricing of initial public offerings (IPO) has been well-documented, thus it has been expected that the findings would support the assumption. Indeed, the results are significantly aligned with the empirical evidence. The following Table 3 shows the summary of the identified biggest IPOs in Poland and the US, from 2000 to 2005 (for more details, please see Appendix 1 for Poland, and Appendix 2 for the US).

It appears that, on average, the IPO companies observed, both in Poland and the US, are underpriced (except for Poland in 2000). On average, in Poland, the percentage change in price, at the end of the first trading day, was. 4.96 while, in the US, the change was higher (6.14). These findings, in general, are not in conflict with the older studies and empirically support the existence of the under-pricing phenomenon. In Poland, the biggest underpricing IPO, in terms of the percentage of the price change on the first day of trading, was MCI Management S.A.'s IPO. The share price, measured as a difference between the offering price and the first day closing price, increased by $33 \%$. The biggest amount "left on the table", in Poland, was attributed to the Grupa LOTOS S.A.'s IPO, where the amount was 3045000000 PLN.

In the US, the most significant fist day positive return was in relation to the Provident Financial Services Inc.'s IPO, where the first day return was. $53 \%$. Therefore, it was also

Table 3
Poland and the US: Money Left on the Table - Summary

| Country | Poland |  | US |  |
| :---: | ---: | ---: | ---: | :---: |
|  | \% change <br> $1^{\text {st }}$ day | Money left <br> on the table* | $\%$ change <br> $1^{\text {st }}$ day | Money left <br> on the table* |
| 2005 | $6.45 \%$ | $4,148,980.126$ | $1.37 \%$ | $94,800.891$ |
| 2004 | $4.07 \%$ | $938,155.177$ | $5.14 \%$ | $361,722.551$ |
| 2003 | $9.23 \%$ | $13,970.000$ | $16.93 \%$ | $433,572.475$ |
| 2002 | $3.00 \%$ | 599.850 | $1.91 \%$ | $56,010.593$ |
| 2001 | $9.74 \%$ | $10,767.501$ | $6.98 \%$ | $693,000.000$ |
| 2000 | $-2.69 \%$ | $-7,680.250$ | $4.49 \%$ | $171,072.513$ |

* Local currency.

Source: Bloomberg, 2012.
the case of the biggest amount of the "money left on the table" in the observed sample - 312996075 USD. The Google Inc.'s IPO, in 2004, is another example of a company going public receiving less money than it would have been in the case of a higher offering share price. In this case, Google Inc. failed to raise additional 294272551 USD of capital. Although it is not focus of the study, the above mentioned cases can support the thesis that the underpricing phenomenon occurs across different industries, countries, and time periods. In order to avoid a possibility of making inadequate conclusion, due to the influence of an IPO size on the calculation of the average performance, Table 4 shows the first day trading performance by the number of companies:

Table 4
Poland and US: Short Term Performance by Number of Companies - Summary

| Country | Poland |  |  | US |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. of <br> underpriced <br> IPOs | No. of <br> overpriced <br> IPOs | No. of <br> neither over or <br> underpriced | No. of <br> underpriced <br> IPOs | No. of <br> overpriced <br> IPOs | No. of <br> neither over or <br> underpriced |
| 2005 | 4 | 1 |  | 2 | 1 | 2 |
| 2004 | 3 | 2 |  | 4 | 1 |  |
| 2003 | 2 | 2 |  | 3 |  | 2 |
| 2002 | 1 |  |  | 2 | 3 |  |
| 2001 | 4 |  |  | 5 |  |  |
| 2000 | 1 | 3 |  | 3 | 1 | 1 |
| Total | $\mathbf{1 5}$ | $\mathbf{8}$ | $\mathbf{0}$ | $\mathbf{1 9}$ | $\mathbf{6}$ | $\mathbf{5}$ |

Source: Bloomberg, 2012.
The results show that, in both countries, the number of companies which had "left money on the table" was larger than the number of companies which had their share prices decreased or stayed the same at the end of the first trading day.

The long term analysis measures the performance of the sample shares for the first three years of trading in the way described above ${ }^{3}$. Table 5 shows the three-year performance of the IPO shares and the related indexes, as measured by the percentage change between the first trading day closing price and the three years later (same date) trading day closing price. The three-year difference measures the gap between the price changes of the shares and the related benchmark index. The positive sign signals that the IPO is overpriced relative to the benchmark index, while the negative sign shows an underperformance.

Table 5
Poland US Long-Term Performance

| Country <br> Year | Poland <br> IPO 3Y <br> change |  |  | Index 3Y <br> change | Difference <br> $3 Y$ | IPO 3Y <br> change |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | $98.07 \%$ | $45.34 \%$ | $52.73 \%$ | $33.00 \%$ | Index 3Y <br> change | Difference <br> $3 Y$ |
| 2004 | $188.25 \%$ | $126.71 \%$ | $61.54 \%$ | $144.96 \%$ | $30.62 \%$ | $114.34 \%$ |
| 2003 | $107.00 \%$ | $154.18 \%$ | $-47.18 \%$ | $40.81 \%$ | $31.97 \%$ | $8.85 \%$ |
| 2002 | $152.43 \%$ | $82.59 \%$ | $69.84 \%$ | $218.19 \%$ | $35.61 \%$ | $182.58 \%$ |
| 2001 | $221.57 \%$ | $51.99 \%$ | $169.58 \%$ | $63.63 \%$ | $-1.69 \%$ | $65.32 \%$ |
| 2000 | $-59.74 \%$ | $-10.45 \%$ | $-49.29 \%$ | $29.76 \%$ | $-32.98 \%$ | $62.74 \%$ |
| Total | $\mathbf{1 1 7 . 9 3 \%}$ | $\mathbf{7 5 . 0 6 \%}$ | $\mathbf{4 2 . 8 7 \%}$ | $\mathbf{8 8 . 3 9 \%}$ | $\mathbf{1 2 . 8 5 \%}$ | $\mathbf{7 5 . 5 4 \%}$ |

Source: Bloomberg, 2012.
Generally, the long term performance of IPO companies was satisfying, meaning that the IPO share prices, both in Poland and the US, were rising (except for the Poland 2000's IPOs). The performance of the Polish companies was better that of the US counterparts. However, the observed IPO companies underperformed (in comparison to the related benchmark index) only in Poland, for the years. 2000 and 2003. In all other cases, an investor would have been better off investing in an IPO, for the 3 year period, then investing in a vehicle that mimics the benchmark index. If one observes the IPO companies' performances, in terms of a number of companies belonging to a group of under- or overperformers relating to the relevant benchmark index, one will find the results presented in Table 6.

Table 6 shows that, in the case of Poland, 14 companies underperformed, in comparisons to 10 companies which overperformed. This is a contradicting observation, which is based on the average returns. Basically, in this case, the one more year's IPOs in Poland show underperformance in addition to 2000 and 2003. That was the case of the 2001's IPOs. However, in the case of the US, in every observed year there were more overperforming IPOs. The return for an investor in the Polish IPO companies over this time period, would have been $157 \%$ of the return, which would have been earned by investing in a product that would mimic the benchmark index performance. In the US, the findings are even more striking - the return would have been $687 \%$.

The best performer among the Polish companies was LPP S.A., whose share price had increased $981 \%$ over the first three years of the trading period. In the US, the winner

[^3]Table 6
Poland and the US: Long Term (3Y) Performance - Number of Companies Summary

| Country | Poland |  | US |  |
| :---: | :---: | :---: | :---: | :---: |
|  | No. of underper- <br> formed IPOs | No. of overper- <br> formed IPOs | No. of underper- <br> formed IPOs | No. of overper- <br> formed IPOs |
| 2005 | 2 | 3 | 2 | 3 |
| 2004 | 1 | 4 |  | 5 |
| 2003 | 3 | 1 | 2 | 3 |
| 2002 |  | 1 |  | 5 |
| 2001 | 3 | 1 | $\mathbf{5}$ | 5 |
| 2000 | $\mathbf{1 4}$ | $\mathbf{1 0}$ | $\mathbf{2 5}$ |  |
| Total |  |  |  |  |

Source: Bloomberg, 2012.
among the observed IPO companies was Google Inc., whose shares rocketed for $398 \%$. The findings emphasize that the long term IPO performance was not proved to be inferior to the alternative performance index. However, this is not in accordance with the long term overpricing phenomenon, which has been documented in many studies.

## Conclusion

The work analyzed two phenomena relating to the IPO markets: short- and long-run market performance of the biggest IPOs in Poland and the US. The research and analysis observed the first-day and the three year trading returns of 53 IPOs from 2000 to 2005. The findings verified the existence of a significant amount of money "left on the table".

The computed arithmetic mean for both countries suggests that the underpricing was equal to $5.55 \%$. The results of the long-run performance failed to show a correspondence with the previous studies. In fact, the results showed the overperformance of IPOs relative to the benchmark indexes, especially in the case of the US.

Nevertheless, this work can encourage and provoke further research studies and discussions in Poland. The remarkable economic achievement of Poland deserves to be the subject of further research, and the Polish case could be an important lesson not just for the developing countries, but also for the developed ones. A further investigation could be focused on the relationship between the IPO market and the economic growth.

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Appendix 1
IPOs in Poland (2000-2005): The First Trading Day Performance

| Short name | Ticker | IPO data | IPO share price | IPO shares Offered | IPO size | First day closing price | $\begin{aligned} & \text { Net change } \\ & 1^{\text {st }} \text { day } \end{aligned}$ | $\begin{gathered} \text { \% change } \\ 1^{\text {st }} \text { Day } \end{gathered}$ | Money left on the table |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 |  |  |  |  |  |  |  |  |  |
| PGNIG | PGN PW Equity | 2005-09-23 | 3,60 | 2,682,000,017 | 9,655,200,062 | 3,46 | -0,14 | -4\% | -375.480.002 |
| LOTOS | LTS PW Equity | 06/0912005 | 29,00 | 1,015,000,000 | 29,435,000,000 | 32,00 | 3,00 | 10\% | 3.045.000.000 |
| PULAWY | ZAP PW Equity | 2005-10-19 | 53,40 | 297,810,000 | 15,903,054,000 | 53,60 | 0,20 | 0\% | 59.562 .000 |
| CIECH | CIE PW Equity | 2005-02-10 | 20,47 | 277,317,600 | 5,676,691,272 | 25,25 | 4,78 | 23\% | 1.325.578.128 |
| AMREST HOLDINGS | EAT PW Equity | 2005-04-27 | 24,00 | 188,640,000 | 4,527,360,000 | 24,50 | 0,50 | 2\% | 94.320.000 |
| 2004 |  |  |  |  |  |  |  |  |  |
| PKOBP | PKO PW Equity | 2004-11-10 | 18,92 | 377,000,000 | 7,132,840,000 | 21,41 | 2,49 | 13\% | 938.730.000 |
| TVN | TVN PW Equity | 2004-12-07 | 6,34 | 14,512,200 | 92,007,348 | 6,97 | 0,63 | 10\% | 9.142.686 |
| GTC | GTC PW Equity | 2004-05-06 | 7,97 | 4,920,700 | 39,217,979 | 8,47 | 0,50 | 6\% | 2.460 .350 |
| SYNTHOS | SNS PW Equity | 2004-12-20 | 0,58 | 9,746,653 | 5,653,059 | 0,57 | -0,01 | -2\% | -97,467 |
| PEKAES | PEK PW Equity | 2004-11-26 | 10,25 | 16,107,190 | 165,098,698 | 9,50 | -0,75 | -7\% | -12.080.393 |
| 2003 |  |  |  |  |  |  |  |  |  |
| IMPEL | IPL PW Equity | 2003-11-14 | 28,00 | 6,200,000 | 173,600,000 | 27,00 | -1,00 | -4\% | -6.200.000 |
| KOFOLA | KFL PW Equity | 2003-08-06 | 21,60 | 3,000,000 | 64,800,000 | 29,30 | 7,70 | 36\% | 23.100 .000 |
| SNIEZKA | SKA PW Equity | 2003-12-31 | 29,50 | 2,100,000 | 61,950,000 | 28,00 | -1,50 | -5\% | -3.150.000 |
| DUDA | DUD PW Equity | 2003-01-30 | 1,11 | 2,000,000 | 2,220,000 | 1,22 | 0,11 | 10\% | 220,000 |
| 2002 |  |  |  |  |  |  |  |  |  |
| EMPERIA | EMP PW Equity | 2002-01-03 | 15,00 | 1,333,000 | 19,995,000 | 15,45 | 0,45 | 3\% | 599,850 |
| 2001 |  |  |  |  |  |  |  |  |  |
| MCI | MCI PW Equity | 2001-02-01 | 6,00 | 5,200,000 | 31,200,000 | 8,00 | 2,00 | 33\% | 10.400 .000 |
| GETIN | GTN PW Equity | 2001-05-10 | 0,43 | 6,000,000 | 2,580,000 | 0,44 | 0,01 | 2\% | 60,000 |
| LPP | LPP PW Equity | 2001-05-16 | 48,00 | 300,000 | 14,400,000 | 48,40 | 0,40 | 1\% | 120,000 |
| TRION | TIN PW Equity | 2001-07-17 | 13,48 | 568,184 | 7,659,120 | 13,81 | 0,33 | 2\% | 187,501 |
| 2000 |  |  |  |  |  |  |  |  |  |
| KOGENERA | KGN PW Equity | 2000-05-26 | 52,00 | 3,924,000 | 204,048,000 | 52,50 | 0,50 | 1\% | 1.962 .000 |
| MCLOGIC | MCL PW Equity | 2000-05-31 | 105,00 | 1,479,050 | 155,300,250 | 100,00 | -5,00 | -5\% | -7.395.250 |
| ZPUE | PUE PW Equity | 2000-08-08 | 24,00 | 940,000 | 22,560,000 | 23,80 | -0,20 | -1\% | -188,000 |
| TALEX | TLX PW Equity | 2000-11-20 | 32,90 | 710,000 | 23,359,000 | 30,00 | -2,90 | -9\% | -2.059.000 |
| ULMA | ULM PW Equity | 2000-05-21 | 12,50 | 1,200,000 | 15,000,000 | 12,50 | 0,00 | 0\% | 0 |

Source: Bloomberg, 2012.

## Appendix 2

IPOs in the US (2000-2005): The First Trading Day Performance

| Short name | Ticker | IPO date | IPO share price | IPO shares offered | IPO size | First day closing price | Net change 1st day | $\begin{gathered} \text { \% change 1st } \\ \text { day } \end{gathered}$ | "Money left on the table" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 |  |  |  |  |  |  |  |  |  |
| HUNTSMAN CORP | HUN US Equity | 2-10-2005 | 23 | 60,227,276 | 1,385,227,348 | 24,5 | 1,50 | 7\% | 90,340,914 |
| LAZARD LTD-CL A | LAZ US Equay | 5-4-2005 | 25 | 34,183,164 | 854,579,100 | 25 | 0,00 | 0\% | 0 |
| CELANESE CORP-A | CE US Equity | 1-20-2005 | 16 | 50,000,000 | 800,000,000 | 16 | 0,00 | 0\% | 0 |
| KKR FINANCIAL HO | KFN US Equity | 6-23-2005 | 23,4832 | 33,333,302 | 782,772,598 | 24217 | 0,73 | 3\% | 24,459,977 |
| WRIGHT EXPRESS | WXS US Equity | 2-15-2005 | 18 | 40,000,000 | 720,000,000 | 17,5 | -0,50 | -3\% | -20,000,000 |
| 2004 |  |  |  |  |  |  |  |  |  |
| GENWORTH FINANCI | GNW US Equity | 5-24-2004 | 19,5 | 145,000,000 | 2,827,500,000 | 18,75 | -0,75 | -4\% | -108,750,000 |
| ASSURANT INC | AIZ US Equity | 2-4-2004 | 22 | 80,000,000 | 1,760,000,000 | 23,75 | 1,75 | 8\% | 140,000,000 |
| GOOGLE INC-CL A | GOOG US Equity | 8-18-2004 | 85 | 19,605,100 | 1,666,433,500 | 100,01 | 15,01 | 18\% | 294,272,551 |
| APOLLO INV CORP | AINV US Equity | 4-5-2004 | 15 | 62,000,000 | 930,000,000 | 15,41 | 0,41 | 3\% | 25,420,000 |
| ASSURED GUARANTY | AGO US Equity | 4-22-2004 | 18 | 49,000,000 | 882,000,000 | 18,22 | 0,22 | 1\% | 10,780,000 |
| 2003 |  |  |  |  |  |  |  |  |  |
| MPG OFFICE TRUST | MPG US Equity | 6-24-2003 | 19 | 36,510,000 | 693,690,000 | 19 | 0,00 | 0\% | 0 |
| PROVIDENT FINANC | PFS US Equity | 1-15-2003 | 10 | 59,618,300 | 596,183,000 | 15,25 | 5,25 | 53\% | 312,996,075 |
| AXIS CAPITAL | AXS US Equity | 6-30-2003 | 22 | 21,500,000 | 473,000,000 | 25,5 | 3,50 | 16\% | 75,250,000 |
| FIRST TST VL DVD | FVD US Equity | 8-27-2003 | 11,4754 | 30,000,000 | 344,262,000 | 11,4754 | 0,00 | 0\% | 0 |
| CAPITALSOURCE IN | CSE US Equity | 8-6-2003 | 13091 | 21,300,000 | 278,838,300 | 15 | 2,13 | 16\% | 45,326,400 |
| 2002 |  |  |  |  |  |  |  |  |  |
| SEAGATE TECHNOLO | STX US Equity | 12-10-2002 | 11,4129 | 72,500,000 | 827,435,250 | 10,94 | -0,48 | -4\% | -34,466,500 |
| PLATINUM UNDERWR | PTP US Equity | 10-28-2002 | 22,5 | 30,040,000 | 675,900,000 | 25 | 2,50 | 11\% | 75,100,000 |
| WYNN RESORTS LTD | WYNN US Equity | 10-25-2002 | 9,7153 | 34,615,000 | 336,295,110 | 9,7135 | 0,00 | 0\% | -62,307 |
| LIN TV CORP-CLA | TVL US Equity | 5-2-2002 | 22 | 17,000,000 | 374,000,000 | 23 | 1,00 | 5\% | 17,000,000 |
| ENBRIDGE ENERGY | EEQ US Equity | 10-10-2002 | 9,0171 | 9,000,000 | 81,153,900 | 8,8437 | -0,17 | -2\% | -1,560,600 |


| 2001 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KRAFT FOODS INC | KFT US Equity | 6-12-2001 | 31 | 280,000,000 | 8,680,000,000 | 31,50 | 0,50 | 2\% | 140,000,000 |
| PRUDENTL FINL | PRU US Equity | 12-12-2001 | 27,5 | 110,000,000 | 3,025,000,000 | 29,10 | 1,60 | 6\% | 176,000,000 |
| PRINCIPAL FINL | PFG US Equity | 10-22-2001 | 18,5 | 100,000,000 | 1,850,000,000 | 20,50 | 2,00 | 11\% | 200,000,000 |
| WELLPOINT INC | WLP US Equity | 10-29-2001 | 18 | 48,000,000 | 864,000,000 | 20,25 | 2,25 | 13\% | 108,000,000 |
| ACCENTURE PLC-A | ACN US Equity | 7-18-2001 | 14,5 | 115,000,000 | 1,667,500,000 | 15,10 | 0,60 | 4\% | 69,000,000 |
| 2000 |  |  |  |  |  |  |  |  |  |
| METLIFE INC | MET US Equity | 4-4-2000 | 14,25 | 202,000,000 | 2,878,500,000 | 14,50 | 0,25 | 2\% | 50,500,000 |
| GENERAL DYNAMICS | GD US Equity | 9-25-2000 | 26,0625 | 15,049,400 | 392,224,988 | 25,50 | -0,56 | -2\% | -8,465,288 |
| ENTRAVISION CO-A | EVC US Equity | 8-1-2000 | 15,8734 | 46,000,000 | 730,176,400 | 17,9177 | 2,04 | 13\% | 94,037,800 |
| MONSANTO CO | MON US Equity | 10-18-2000 | 10 | 35,000,000 | 350,000,000 | 11,00 | 1,00 | 10\% | 35,000,000 |
| PACKAGING CORP | PKG US Equity | 1-27-2000 | 12 | 46,250,000 | 555,000,000 | 12,00 | 0,00 | 0\% | 0 |

Source: Bloomberg, 2012.
Currency: PLN

| Short name | Ticker | IPO date | First <br> day <br> closing <br> price | $\begin{aligned} & \text { Index IPO } \\ & \text { date } \end{aligned}$ | $\begin{aligned} & \text { IPO date } \\ & +1 \mathrm{Y} \end{aligned}$ | IPO <br> share <br> price <br> $+1 \mathrm{Y}$ | $\begin{aligned} & \text { IPO date } \\ & +2 \mathrm{Y} \end{aligned}$ | IPO <br> share <br> price <br> $+2 \mathrm{Y}$ | $\begin{gathered} \text { IPO date } \\ +3 \mathrm{Y} \end{gathered}$ | IPO <br> share <br> price <br> +3Y | Index IPO date $+3 \mathrm{Y}$ | IPO 1Y change | $\begin{aligned} & \text { IPO 2Y } \\ & \text { change } \end{aligned}$ | IPO 3Y change | Index 3 Y change | Difference 3Y |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PGNIG | PGN PW Equity | 2005-09-23 | 3,46 | 33.223.87 | 2006-09-25 | 3,18 | 2007-09-24 | 5,27 | 2008-09-23 | 3,16 | 37.405 .6 | -8,1\% | 52,3\% | -8,7\% | 12,6\% | -21,3\% |
| LOTOS | LTS PW Equity | 2005-06-09 | 32,00 | 27.521.19 | 2006-06-09 | 46,6 | 2007-06-11 | 48,65 | 2008-06-11 | 31,69 | 45.029 .57 | 45,6\% | 52\% | -1\% | 63,6\% | -64,6\% |
| PULAWY | ZAP PW Equity | 2005-10-19 | 53,60 | 31.271,90 | 2006-10-19 | 56,4 | 10/1912007 | 123,1 | 2008-10-20 | 61 | 28.670 .13 | 5,2\% | 129,7\% | 13,8\% | -8,3\% | 22,1\% |
| CIECH | CIE PW Equity | 2005-02-10 | 25,25 | 26.877.29 | 2006-02-10 | 31,65 | 2007-02-12 | 67,31 | 2008-02-11 | 83,6 | 47.942.35 | 25,4\% | 166,6\% | 231,1\% | 78,4\% | 152,7\% |
| AMREST HOLDINGS | EAT PW Equity | 2005-04-27 | 24,50 | 25.939,43 | 2006-04-27 | 49,1 | 2007-04-27 | 96,5 | 2008-04-28 | 87 | 46.807,86 | 100,4\% | 293,9\% | 255,1\% | 80,5\% | 174,7\% |
| 2004 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PKOBP | PKO PW Equity | 2004-11-10 | 21,41 | 25.521.35 | 2005-11-10 | 26,39 | 2006-11-10 | 38,02 | 2007-11-12 | 48,26 | 57.244.48 | 23,3\% | 77,6\% | 125,4\% | 124,3\% | 1,1\% |
| TVN | TVN PW Equity | 2004-12-07 | 6,97 | 26.067,84 | 2005-12-07 | 14,5 | 2006-12-07 | 24,17 | 2007-12-07 | 25,26 | 58.635.79 | 108\% | 246,8\% | 262,4\% | 124,9\% | 137,5\% |
| GTC | GTC PW Equity | 2004-05-06 | 8,47 | 23.919.38 | 2005-05-06 | 11,1 | 2006-05-08 | 27,5 | 2007-05-07 | 50,2 | 61.283.82 | 31,1\% | 224,7\% | 492,7\% | 156,2\% | 336,5\% |
| SYNTHOS | SNS PW Equity | 2004-12-20 | 0,57 | 26.476,65 | 2005-12-20 | 0,51 | 2006-12-20 | 1,07 | 2007-12-20 | 1,38 | 55.309 .84 | -10,5\% | 87,7\% | 142,1\% | 108,9\% | 33,2\% |
| PEKES | PEK PW Equity | 2004-11-26 | 9,50 | 25.268.42 | 2005-11-28 | 7,85 | 2006-11-27 | 17,3 | 2007-11-26 | 1,77 | 55.385 .73 | -17,4\% | 82,1\% | -81,4\% | 119,2\% | -200,6\% |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IMPEL | IPL PIN EquityEquity | 2003-11-14 | 27,00 | 20.425.08 | 2004-11-15 | 10,25 | 2005-11-14 | 12,5 | 2006-11-14 | 20,99 | 48.900 .38 | -62,00\% | -53,7\% | -22,3\% | 139,4\% | -161,7\% |
| KOFOLA | KFL PW Equity | 2003-08-06 | 29,30 | 17.877,71 | 2004-08-06 | 13,9 | 2005-08-08 | 11,05 | 2006-08-07 | 18,6 | 43.648,70 | -52,6\% | -62,3\% | -36,5\% | 144,2\% | -180,7\% |
| SNIEZKA | SKA PW Equity | 2003-12-31 | 28,00 | 20.820.07 | 2004-12-31 | 27,1 | 2006-01-02 | 27,3 | 2007-01-02 | 39,9 | 51.927,09 | -3,2\% | -2,5\% | 42,5\% | 149,4\% | -106,9\% |
| DUDA | DUD PW Equity | 2003-01-30 | 1,22 | 13.783,66 | 2004-01-30 | 3,33 | 2005-01-31 | 7,78 | 2006-01-30 | 6,64 | 39.109,05 | 173,00\% | 537,7\% | 444,3\% | 183,7\% | 260,5\% |
| 2002 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EMPERIA | EMP PW Equity | 2002-01-03 | 15,45 | 14.628.00 | 2003-01-03 | 15,05 | 2004-01-03 | 31 | 2005-01-05 | 39 | 26.709 .54 | -2,6\% | 100,7\% | 152,4\% | 82,6\% | 69,8\% |
| 2001 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MCI | MCI PW Equity | 2001-02-01 | 8,00 | 17.642.63 | 2002-02-01 | 1,16 | 2003-02-03 | 0,38 | 2004-02-02 | 1,4 | 22.227.67 | -85,5\% | -95,3\% | -82,5\% | 26,0\% | -108,5\% |
| GEM | GTN PW Equity | 2001-05-10 | 0,44 | 14.974,76 | 2002-05-10 | 0,1 | 2003-05-12 | 0,17 | 2004-05-10 | 0,65 | 22.962,68 | -77,3\% | -61,4\% | 47,7\% | 53,3\% | -5,6\% |
| LPP | LPP PW Equity | 2001-05-16 | 48,40 | 14.854.67 | 2002-05-17 | 92,2 | 2003-05-16 | 334 | 2004-05-17 | 523 | 22.743 .79 | 90,5\% | 590,1\% | 980,6\% | 53,1\% | 927,5\% |
| TRION | TIN PW Equity | 2001-07-17 | 13,81 | 13.451,47 | 2002-07-18 | 21,64 | 2003-07-17 | 8,81 | 2004-07-19 | 5,59 | 23.611,95 | 56,7\% | -36,2\% | -59,55\% | 75,5\% | -135,1\% |
| 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| KOGENERA | KGN PW Equity | 2000-05-26 | 52,5 | 18.356 .7 | 2001-05-28 | 48,2 | 2002-05-27 | 22,1 | 2003-05-26 | 14,65 | 15.099,64 | -8,2\% | -57,9\% | -72,1\% | -1,77\% | -54,4\% |
| MCLOGIC | MCL PW | 2000-05-31 | 100,00 | 19.570 .5 | 2001-05-31 | 21,3 | 2002-05-31 | 9,25 | 2003-06-02 | 7,4 | 15.250,08 | -78,7\% | -90,8 | -92,6\% | -22,1\% | -70,5\% |

Source: Bloomberg, 2012.
IPOs in the US (2000-2005): Long-term (3Y) Performance vs. S\&P 500 Index (3Y) Performance

| Short Name | Ticker | IPO date | First day Closing | Index IPO date | $\begin{aligned} & \text { IPO date } \\ & +1 \mathrm{Y} \end{aligned}$ | IPO <br> share <br> price <br> $+1 \mathrm{Y}$ | $\begin{aligned} & \text { IPO date } \\ & +2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { IPO } \\ & \text { price } \\ & +2 \mathrm{Y} \end{aligned}$ | $\begin{gathered} \text { IPO date } \\ +3 \mathrm{Y} \end{gathered}$ | $\begin{aligned} & \text { IPO } \\ & \text { share } \\ & \text { price } \\ & +3 \mathrm{Y} \end{aligned}$ | Index <br> IPO <br> date <br> $+3 \mathrm{Y}$ | $\begin{aligned} & \text { IPO 1Y } \\ & \text { change } \end{aligned}$ | IPO 2Y change | IPO 3Y change | Index 3Y change | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HUNTSMAN CORP | HUN US Equity | 2005-02-10 | 24,5 | 1197,01 | 2006-02-10 | 20,7 | 2007-02-12 | 20,8 | 2008-02-11 | 23,52 | 1339,13 | -15,5\% | -15,3\% | -4.0\% | 11,9\% | -15,9\% |
| LAZARD LTD- CL. A | LAZ US Equity | 2005-05-04 | 25 | 1175,65 | 2006-05-04 | 38,68 | 2007-05-04 | 55,2 | 2008-05-05 | 36,06 | 1407,49 | 54,7\% | 120,896\% | 44,2\% | 19,7\% | 24,5\% |
| CELANESE CORP-A | CE US Equity | 2005-01-20 | 16 | 1175,41 | 2006-01-20 | 19,02 | 2007-01-22 | 25,5 | 2008-01-22 | 33,79 | 1353,11 | 22,6\% | 59,4\% | 111,2\% | 15,1\% | 96,1\% |
| KKR FINANCIAL HO | KFN US Equity | 2005-06-23 | 24217 | 1200,73 | 2006-06-23 | 20,99 | 2007-06-25 | 25,6 | 2008-06-23 | 11,26 | 1318,00 | $-13,3 \%$ | 5,7\% | -53.5\% | 9,8\% | -63,3 |
| WRIGHT EXPRESS | WXS US Equity | 2005-02-15 | 17,5 | 1210,12 | 2006-02-15 | 23,8 | 2007-02-15 | 28,8 | 2008-02-15 | 29,24 | 1349,99 | 36,00\% | 64,6\% | 67,1\% | 11,6\% | 55,5\% |
| 2004 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GENWORTH FINANCI | GNW US Equity | 2004-05-24 | 18,75 | 1095,41 | 2005-05-24 | 27,99 | 2006-05-24 | 33,4 | 2007-05-24 | 35,92 | 1507,51 | 49,3\% | 78,1\% | 91,6\% | 37,6\% | 54\% |
| ASSURANT INC | AIZ US Equity | 2004-02-04 | 23,75 | 1126,52 | 2005-02-04 | 33,58 | 2006-02-04 | 44,6 | 2007-02-05 | 57,11 | 1446,99 | 41,4\% | 87,6\% | 140,5\% | 28,5\% | 112\% |
| GOOGLE INC- CL A | GOOG US Equity | 2004-08-18 | 100,01 | 1398,56 | 2005-08-18 | 279,99 | 2006-08-18 | 383,00 | 2007-08-20 | 497,90 | 1445,55 | 180\% | 283,3\% | 397,9\% | 32,0\% | 365,9\% |
| APOLLO INV CORP | AINV US Equity | 2004-04-05 | 15,41 | 1150,57 | 2005-04-05 | 17,49 | 2006-04-05 | 18,50 | 2007-04-05 | 22,25 | 1439,37 | 13,5\% | 20,1 | 44,4\% | 25,10\% | 19,3\% |
| ASSURED GUARANTY | AGO US Equity | 2004-04-22 | 18,22, | 1139,93 | 2005-04-22 | 18,68 | 2006-04-24 | 25,00 | 2007-04-23 | 27,42 | 1480,93 | 2,5\% | 37,2 | 50,5\% | 29,9\% | 20\% |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MPG OFFICE TRUST | MPG US Equity | 2003-06-24 | 19 | 983,45 | 2004-06-24 | 24,71 | 2005-06-24 | 27,80 | 2006-06-26 | 35,28 | 1250,56 | 30,1\% | 46,1\% | 85,7\% | 27,2\% | 58,5\% |
| PROVIDENT FINANC | PFS US Equity | 2003-01-15 | 15,25 | 918,22 | 2004-01-15 | 18,81 | 2005-01-18 | 18,10 | 2006-01-17 | 18,71 | 1283,72 | 23,3\% | 18,6 | 22,7\% | 39,8\% | -17,1\% |
| AXIS CAPITAL | AXS US Equity | 2003-06-30 | 25,5 | 974,5 | 2004-06-30 | 28,00 | 2005-06-30 | 28,30 | 2006-06-30 | 28,61 | 1270,20 | 9,8\% | 11\% | 12,2\% | 30,3\% | -18,2\% |
| FIRST TST VL DVD | FVD US Equity | 2003-08-27 | 11,4754 | 996,79 | 2004-08-26 | 11,0254 | 2005-08-26 | 12,10 | 2006-08-28 | 15,18 | 1301,78 | -3,9\% | 5,6\% | 32,3\% | 30,6\% | 1,7\% |
| CAPITALSOUR CE IN | CSE US Equity | 2003-08-06 | 15 | 967,08 | 2004-08-06 | 19298 | 2005-08-06 | 17,00 | 2006-08-07 | 23,01 | 1275,77 | 20,2\% | 11,9\% | 51,2\% | 31,9\% | 19,3\% |
| 2002 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SEAGATE TECHNOLO | STX US Equity | 2002-12-10 | 10,94 | 904,45 | 2003-12-10 | 17134 | 2004-12-10 | 16,30 | 2005-12-12 | 19,34 | 1260,43 | 56,7\% | 49,1\% | 76,8\% | 39,4\% | 37,5\% |
| PLATINUM UNDERWR | PTP US Equity | 2002-10-28 | 25,5 | 890,23 | 2003-12-05 | 55373 | 2004-12-05 | 114,00 | 2005-12-05 | 185,1 | 1262,09 | 121,5\% | 356,5\% | 640,3\% | 41,8\% | 598,5\% |
| WYNN RESORTS LTD | "WYNN US Equity" | 2002-10-25 | 9713 | 897,65 | 2003-10-27 | 15432 | 2004-10-25 | 40,30 | 2005-10-25 | 36,35 | 1196,54 | 58,9\% | 315.1\% | 274,2\% | 33,3\% | 240,9\% |
| LIN TV CORP- CL A | TVL US Equity | 2002-05-02 | 23 | 1084,56 | 10/282003 | 28,05 | 2004-10-28 | 29,50 | 2005-10-28 | 27,86 | 1198,41 | 22,00\% | 28\% | 21,1\% | 10,5\% | 10,6\% |
| ENBRIDGE ENERGY | EEQ US Equity | 2002-10-10 | 8843 | 803,92 | 2003-10-10 | 11651 | 2004-10-11 | 12,40 | 2005-10-10 | 15,78 | 1230,96 | 31,7\% | 39,9\% | 78,5\% | 53,1\% | 25,4\% |


| Short Name | Ticker | IPO date | First day Closing | Index IPO date | $\begin{aligned} & \text { IPO date } \\ & +1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { IPO } \\ & \text { share } \\ & \text { price } \\ & +1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { IPO date } \\ & +2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { IPO } \\ & \text { price } \\ & +2 \mathrm{Y} \end{aligned}$ | $\begin{gathered} \text { IPO date } \\ +3 \mathrm{Y} \end{gathered}$ | IPO <br> share <br> price <br> +3Y | Index <br> IPO <br> date <br> $+3 \mathrm{Y}$ | IPO 1Y change | $\begin{aligned} & \text { IPO 2Y } \\ & \text { change } \end{aligned}$ | $\begin{aligned} & \text { IPO 3Y } \\ & \text { change } \end{aligned}$ | $\begin{gathered} \text { Index } \\ 3 \mathrm{Y} \\ \text { change } \end{gathered}$ | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| KRAFT FOODS INC | KFT US Equity | 2001-06-12 | 31,50 | 1255,85 | 2002-06-12 | 43,80 | 2003-06-12 | 33,70 | 2004-06-14 | 30,72 | 1125,29 | 39,1\% | 7,1\% | -2,5\% | -10.4\% | 7,9\% |
| PRUDENTL FINL | PRU US Equity | 2001-12-12 | 29,1 | 1137,07 | 2002-12-12 | 31,42 | 2003-12-12 | 41,20 | 2004-12-13 | 52,13 | 1198,68 | 8\% | 41,6\% | 7,91\% | 5,4\% | 73,7\% |
| PRINCIPAL FINL | PFG US Equity | 2001-10-22 | 20,50 | 1089,91 | 2002-10-22 | 28,48 | 2003-10-22 | 31,7 | 2004-10-22 | 35,51 | 1095,74 | 38,9\% | 54,4\% | 73,2\% | 0,5\% | 72,7\% |
| WELLPOINT INC | WLP US Equity | 2001-10-29 | 20,25 | 1078,3 | 2002-10-29 | 32,79 | 2003-10-29 | 34,6 | 2004-10-29 | 40,2 | 1130,20 | 61,9\% | 71,0\% | 98,5\% | 4,8\% | 93,7\% |
| ACCENTURE PLC-A | ACN US Equity | 2001-07-18 | 15,10 | 1207,71 | 2002-07-18 | 13,9 | 2003-07-18 | 20,7 | 2004-07-19 | 25,63 | 1100,90 | -8,0\% | 36,8\% | 69,7\% | -8,8\% | 78,6\% |
| 2000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| METLIFE INC | MET US Equity | 2000-04-04 | 14,50 | 1494,73 | 2001-04-04 | 29,16 | 2002-04-04 | 31,50 | 2003-04-04 | 27,96 | 878,85 | 101,1\% | 117,5\% | 92,8\% | -41,2\% | 134,0\% |
| GENERAL DYNAMICS | GD US Equity | 2000-09-25 | 25,50 | 1439,03 | 2001-09-25 | 42,91 | 2002-09-25 | 41,00 | 2003-09-25 | 38,04 | 1003,27 | 68,3\% | 60,9\% | 49,2\% | -30,3\% | 79,5\% |
| ENTRAVISION CO-A | EVC US Equity | 2000-08-01 | 17,9177 | 1438,1 | 2001-08-01 | 12,0253 | 2002-08-01 | 9,43 | 2003-08-01 | 10,05 | 980,15 | -32,9\% | -47,4\% | -43,9\% | -31,8\% | -12,1\% |
| MONSANTO CO | MON US Equity | 2000-10-18 | 11 | 1342,13 | 2001-10-18 | 18,17 | 2002-10-18 | 8,17 | 2003-10-20 | 12,00 | 1044,68 | 65,2\% | -25,7\% | 9,1\% | -22,2\% | 31,3\% |
| PACKAGING CORP | PKG US Equity | 2000-01-27 | 12,00 | 1398,56 | 2001-01-29 | 13,8 | 2002-01-28 | 17,6 | 2003-01-27 | 16,99 | 847,48 | 15,0\% | 46,7\% | 41,6\% | -39,4\% | 81,0\% |


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[^1]:    ${ }^{1}$ Bloomberg Underwriter Rankings (2012) - Market - U.S. Equity Offerings.

[^2]:    ${ }^{2}$ Bloomberg Underwriter Rankings (2012) - Market - EMEA Equity Offerings.

[^3]:    ${ }^{3}$ In Appendices. 3 and 4 there are information about 3 year returns for each analyzed company.

