Firm Characteristics and the Extent of Voluntary Disclosure: The Case of Egypt

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Abstract
In a society depending on real time information, corporate disclosure is crucial for the capital market efficiency. The more disclosures a company makes, the more transparent becomes the information to investors, the lower becomes the information asymmetry and more credible the firms will be for the market. The purpose of this study is to investigate the association between the voluntary disclosure level in annual reports and firm characteristics of more active 50 Egyptian companies listed on the Egyptian Stock Exchange of the non-financial sector during the period 2007-2010. The firm characteristics used in the study are: firm size, auditor size, profitability, and firm’s age. A disclosure checklist consisting of 60 voluntary items of information is developed and statistical analysis is performed using multiple regression analysis. The results of univariate and multivariate analyses indicated that firm size and profitability have significant positive association with voluntary disclosure level in annual reports. On the other hand, auditor size and firm’s age do not have any significant association with voluntary disclosure level. However, this paper has contributed to the academic literature that firms in the Middle East provide voluntary corporate information which builds a confidence to the investors in general.

Keywords: Firm Characteristics; Annual reports; Voluntary Disclosure; Egypt

1. Introduction
Voluntary disclosure in the annual reports and in other information media has been one of the rapidly growing research areas in the accounting field. In this, several factors have played important roles. Among them are development of communication tools, stakeholders’ need for more transparency, accountability, and corporate governance practices (Bleck and Liu, 2007). Earlier studies have evaluated the extent of voluntary disclosure made by corporations in many developed countries, and provided evidences of firm characteristics which have impact on voluntary disclosure level.

Emerging capital markets break from those of developed countries in that they have high-growth potential, relatively weak regulatory environment, weak corporate governance leading to expropriation of minority shareholders, and low information disclosure level causing high information gap between managers and investors. Thus, research studies about these markets are needed and are vital in improving the weak transparency and disclosure situation by attracting the attention of regulatory bodies and firm managers (Alsaeed, 2006).

The subject of information disclosure is not only limited to the exclusive users but also consists of people's necessity in the society such as professional institutions, creditors, government, investors and other decision-makers. Disclosure increase transparency while market transparency is observed as a fundamental mechanism in order to decrease the information asymmetry among the market's participants (Bleck and Liu, 2007). Disclosure helps the stockholders and other participants in market to organize their operations favorably. The investors can buy and sell stocks accurately and have control over the company with the help of proper disclosure of information (Kohl and Schaefers, 2012).

Proper disclosure is based on the ethics that all potential users be considered the same with regard to the financial information disclosure. Complete disclosure indicating the present of all information in a way that financial statement show complete picture concerning events and transactions of business enterprise. Although, it is necessary to be presented financial statement completely but, it is not included unimportant information. Because, users of financial statements may pay attention to less important information and as a result of this, neglect important events and operations (Alivar, 2006).

Transparency generates benefits for the global economy. Foreign direct investment increases with the corporate transparency (Rees and Weisbach, 2002). Based on the assumptions of the behavioural finance, Bremer and Elias (2007) argue that the main cause of home bias is the inability of many foreign firms to attract the initial attention of investors, concluding that investors tend to spend their money in a larger amount of domestic equities, despite the payback of foreign equities. The inability to attract foreign investors could be eliminated with more efforts to improve financial reporting practices (Al-Shammari, 2008).

In this study, an important aspect is the definition of “voluntary disclosure”. Consistently with prior definitions in different regulatory national environments (Raffournier, 1995; Meek et al., 1995; Depoers, 2000; and Larmou and Vafeas, 2010). This study considers voluntary disclosure as the information released to the outside deriving
from management’s insider knowledge of the company, which are not required to be published in regulated reports. Voluntary disclosure is, therefore, produced by a management’s reporting decision (Meek et al., 1995; and Healy and Palepu, 2001). Disclosure in the management annual report is a form of disclosure which is not yet strictly regulated in Egypt, the thing which makes the research, in this area, necessary. Actually, what is nowadays disclosed on a voluntary basis is likely to be included in the foundations of standardization and the future regulations. This could be achieved as a response to the needs of the Egyptian external users of the annual reports since their need for information is constantly growing.

An important practical motivation for this study is the better understanding of the voluntary disclosure practices in a non-Anglo-American country that has not been extensively examined. The relevance of this paper is based on several reasons. First, it contributes to the recent literature on the information transparency and accountability. Second, it can be of interest to both managers and investors, because of the influence of transparency on domestic and foreign investments. Finally, the study addresses voluntary disclosure practices over the period of considerable changes in the business environment in general and the capital market in particular. The period of the study has witnessed, among other changes, the first application of the new listing rules and the issuance of an Egyptian corporate governance code. Also, the results of the analysis are expected to help explain the variation of current and prospective voluntary disclosure extent in light of the aforementioned firm characteristics. The paper proceeds as follows. The next section provides a literature review and development of hypothesis. Section three describes the methodology, and the data. Section four reports the empirical results and the robustness checks.

2. Literature Review and Development of Hypothesis
Emerging markets have become the focus of international corporations, personal and institutional investors due to their high rates of economic growth (Millar et al., 2005). However, they suffer from low investor protection practices, especially expropriation of minority shareholders both by managers and controlling shareholders (Gonenc and Aybar, 2006). They have higher information asymmetry between managers and investors (Gul and Leung, 2004; Chau and Gray, 2010), and have lower level of disclosure than those in developed market economies (Salter, 1998; Tower et al., 2011; And Wang et al., 2008). These two factors (i.e. low minority investor protection and low disclosure level) might be detrimental by keeping foreign investors away from the marketplace, and set an obstacle to the international capital flow toward these economies. Mitton (2002) states that disclosure quality and legal protection of minority shareholders are two key elements of corporate governance. Thus, firms have to respond positively to increasing demand for higher transparency and disclosure by investors in face of severe competition for international capital (Kohl and Schaefer, 2012). Young and Guenther (2003) found that disclosure of value-relevant accounting information has a positive effect on international capital mobility; therefore, they state that reducing information barriers may improve international capital mobility.

Voluntary disclosure refers to additional information delivered by firms beside the mandatory information. To reduce the information asymmetry between a leader and an investor, we must have the case where the former discloses voluntary information to the latter. This is essentially going to contribute to the alleviation of problems of adverse selection and of moral risk. Voluntary disclosure is regarded as an external mechanism for the control of the leaders, a protection of the shareholders, and a decrease of the agency costs resulting from the asymmetry of information between the insiders and the outsiders (Wang et al., 2008). Giving this crucial role of voluntary corporate reporting policy, a considerable research area has been developed in order to identify factors that have the potential of affecting corporate voluntary disclosure practices in both emerging and developed markets. Although many factors have been identifies, the empirical evidence is rather mixed.

Aljifri (2008) examined the extent of disclosure in annual reports of 31 listed firms in the UAE and also determined the underlying factors that affect the level of disclosures. The study hypothesized that four main factors would affect the extent of disclosure in the UAE, namely, the sector type (banks, insurance, industrial, and service), size (assets), debt-equity ratio, and profitability. Findings indicated that significant differences were found among sectors; however, the size, the debt-equity ratio, and the profitability were found to have insignificant association with the level of disclosure.

Alsaeed (2006) studied the association between firm-specific characteristics and disclosure in Saudi Arabia. A total of 20 voluntary items developed to assess the level of disclosure in the annual reports of 40 firms. The results showed that the mean of the disclosure index was lower than average. It was also found that firm size was significantly positively associated with the level of disclosure however, debt, ownership dispersion, age, profit margin, industry and audit firm size were found to be insignificant in explaining the variation of voluntary disclosure.
In Egypt, Dahawy (2009) investigated the relationship between company characteristics and disclosure level. The study is based on the manual examination of the disclosure of the most activity traded 41 companies listed on the Cairo and Alexandria Stock Exchange (CASE), using a disclosure checklist issued by the Egyptian Capital Market Authority (CMA). A quantitative analysis is then used to test the relationship between corporate characteristics and disclosure level. The findings of research indicate that the degree of disclosure by Egyptian companies is affected by the highly secretive Egyptian culture. The results further indicate that the degree of affiliation of the auditor with an international firm is the most significant variable affecting the level of disclosure by Egyptian companies and are then compared to their counterparts in previous studies.

2-1. Firm Size and Voluntary Disclosure

The firm size is considered as one of the most important variables related with the level of transparency (Lang and Lundholm, 2000). Large companies face greater agency costs because they require large volumes of external capital to finance their investments (Jensen and Meckling, 1976). Marston and Polei (2004) claim that higher level of disclosure is expected to decrease agency cost which may arise from the conflicting interests of shareholders, managers and debt holders. Watts and Zimmerman (1990) also argue that the political costs are greater in large organizations. Consequently, large firms tend to disclose more information to reinforce confidence and to reduce such costs. Furthermore, voluntary disclosures are expected to decrease political costs that are higher for larger companies compared to smaller companies (Marston and Polei, 2004).

Literatures find evidence that larger firms disclose more information (e.g. Meek et al., 1995; Hossain et al., 1995; Camfferman and Cooke, 2002; Eng and Mak, 2003; and Wang et al., 2008). Also Beattie et al. (2004) find a positive relation between the size and the reporting of British companies. Hence, the following hypothesis is stated:

H1: There is a positive association between firm size and the voluntary disclosure in annual reports.

2-2. Auditor Size and Voluntary Disclosure

The audits indicator is a measure of the reliability of financial accounting disclosures (Bushman et al., 2004). Earlier studies have investigated the association between auditor size and the disclosure level of corporations (Wang et al., 2008; Wallace et al., 1994; and Bonsón and Escobar, 2006). Malone et al. (1993) argue that smaller auditing firms are more sensitive to client demands because of the economic consequences associated with the loss of a client; on the other hand, larger firms have a greater incentive to demand adverse disclosures from the client. A number of studies failed to discover a significant relationship between the auditor size and disclosure level (Wallace et al., 1994; Hossain et al., 1995; Malone et al., 1993). On the other hand, many earlier studies have found a positive association between the auditor size and the extent of disclosure (Patton and Zelenka, 1997; Raffournier, 1995; and Bonsón and Escobar, 2006). Hence, the following hypothesis is stated:

H2: There is a positive significant association between auditor size and the voluntary disclosure in annual reports.

2-3. Profitability and Voluntary Disclosure

There is a general proposition that a company's willingness to disclose information is positively related to its profitability. One motive for this can be derived from agency theory. It is suggested that managers of profitable companies disclose extensive information in order to show and explain to shareholders that they are acting in their best interests and justify their compensation packages. Similarly, management of a profitable company wishes to disclose more information to the public to promote positive impression of its performance (Ghazali and Weetman, 2006).

The association between profitability and voluntary disclosure has also been investigated in previous studies (Wang et al., 2008; and Marston and Polei, 2004). Ghazali and Weetman (2006) argue that the more profitable the companies, the more likely it is for them to disclose financial information. Marston and Polei (2004) also stress that “good news” firms are encouraged to distinguish themselves out from other firms by disclosing more information. This provides the basis for the following hypothesis:

H3: There is a positive association between profitability and the voluntary disclosure in annual reports.

2-4. Firm’s Age and Voluntary Disclosure

Camfferman and Cooke (2002) identified a number of new variables, such as the age of the company to be investigated by future studies. The rationale for selecting this variable lies in the possibility that old firms might have improved their financial reporting practices over time (Alsaeed, 2006) and secondly they try to enhance their reputation and image in the market (Akhtaruddin, 2005). Owusu and Yeoh (2005) state three points in this case. First, younger companies may suffer competitive disadvantage if they disclose certain items such as information on research expenditure, capital expenditure, and product development. The second factor is the cost and the ease of gathering, processing, and disseminating the required information. These costs are likely to be more onerous for younger companies than for their older counterparts. The third and final factor is the situation that younger companies may lack a ‘track record’ to rely on for public disclosure and therefore may have less information to disclose or less rich disclosures. Therefore, in principle the age of the firm can be offered as an
In Egypt, international accounting firms can only operate through an Egyptian partner. In addition, the audit the confidence of national and foreign investors (Samaha and Abdallah, 2011).

Several working groups were created to reflect upon the mechanisms to be set up in order to promote good communications should help Egyptian firms to meet stakeholders’ needs for information, and thereby promote comparable to those of other companies. This gave us a sample of 40 firms. As no relevant Data Stream exists in due to the different requirements of disclosure and corporate governance. Hence their annual reports may be not.

The sample in the current study consists of the Egyptian companies from amongst the top 50 most active-traded firms, can apply to large local and international firms (Abd-Elsalam and Weetman, 2003).

In Egypt, we are witnessing in these recent decades, some changes characterizing in the economic environment. The argument that large audit profession and auditor independence have been well regulated since the 1950s. The voluntary use of the Internet in corporate communications should help Egyptian firms to meet stakeholders’ needs for information, and thereby promote the confidence of national and foreign investors (Samaha and Abdallah, 2011).

In Egypt, international accounting firms can only operate through an Egyptian partner. In addition, the audit profession and auditor independence have been well regulated since the 1950s. The argument that large audit firms are more independent, stricter with their clients and more sensitive to their reputation than small audit firms, can apply to large local and international firms (Abd-Elsalam and Weetman, 2003).

In Egypt, we are witnessing in these recent decades, some changes characterizing in the economic environment. Several working groups were created to reflect upon the mechanisms to be set up in order to promote good corporate governance beyond the legal obligations of disclosure.

3. Research design

3.1. Sample

The sample in the current study consists of the Egyptian companies from amongst the top 50 most active-traded companies listed in the Egyptian Stock Exchange over the period 2007-2010. Following the majority of disclosure literature (e.g. Wallace and Naser, 1995; Haniffa and Cooke, 2002; and Ghazali and Weetman, 2006) financial companies; e.g. banks, insurance companies, and leasing companies; were excluded from the sample due to the different requirements of disclosure and corporate governance. Hence their annual reports may be not comparable to those of other companies. This gave us a sample of 40 firms. As no relevant Data Stream exists in Egypt, the annual reports, covering the four year period 2007-2010, were purchased from the Egyptian Company for Information Dissemination (EGID) to extract the information on the variables needed to test each of the research hypotheses.

3.2. Construction of the disclosure Index

The voluntary disclosure index (VDISCL) is based on the information firms provide in their annual reports to shareholders. The index is similar to that in Eng and Mak (2003); Peterson and Plenborg (2006); and Alivar (2006). Common to these studies is that they focus on investors’ needs. The disclosure index is based on the following six categories: strategy, market and competition, management and production, marketing, future perspective and human capital. A score sheet was designed for scoring firms on the amount and the level of detail of disclosures. A total of 60 indicators within the six groups have been identified (See appendix A). The disclosure index is un-weighted as it assumes that each indicator of each disclosure category is equally important (Gray et al., 1995). The disclosure level of a company was calculated by dichotomous procedure which assigns a score of 1 if a corporation discloses an item and a score of 0 if it does not (Cooke, 1989; Gul and Leung, 2004; and Hossain and Hammami, 2009). For each firm, a disclosure index was computed as the ratio of the actual score given to the firm divided by the maximum score. Accordingly, the voluntary disclosure index for each company was calculated as follows (Cooke, 1989; Hossain and Reaz, 2007; and Hossain and Hammami, 2009):

\[
VDISCL = \frac{\sum_{n=1}^{n} d_j}{n}
\]

Where: VDISCL is voluntary Disclosure index level, \( d_j = 1 \) if the item \( j \) is disclosed; \( 0 \) if the item \( j \) is not disclosed; \( n \) is number of items.

This study proceed to the validation of the voluntary disclosure index, following Botosan (1997), based on the following points: comparison with similar studies using voluntary disclosure indexes; positive statistically significant correlations between the number of analysts and the voluntary disclosure scores; an accepted value for the Cronbach’s alpha coefficient; and similar results with previous studies of the correlation between the voluntary disclosure level and firm characteristics.

3.3. Definition of Variables

The explanations of dependent and independent variables are presented in Table 1. Most measurements and expected relations are consistent with prior research (Cooke, 1989; Gul and Leung, 2004; and Hossain and
Hammami, 2009).

There are a number of companies that were in the top 50 most active-traded companies listed in the Egyptian Stock Exchange in 2007 that are not in 2010 raising concerns regarding the effect that non-surviving firms have on the results. To control the effect of non-survivorship firms on the results, a dummy variable (FSUR) is created which is equal to 1 if the firm is continuously present in all the years of the sampling period from 2007 to 2010, otherwise it is equal to 0.

### Table 1: Dependent and Independent Variables

| Variable            | Indicators | Explanation                                                                 |
|---------------------|------------|-----------------------------------------------------------------------------|
| **Dependent Variable** |            |                                                                             |
| Voluntary Disclosure index level | VDISCL | Which assigns a score of 1 if a firm discloses an item and a score of 0 if it does not. For each firm, a disclosure index was computed as the ratio of the actual score given to the firm divided by the maximum score. |
| **Independent Variables** |            |                                                                             |
| Firm Size           | FSIZE      | Which is measured by Log of the book value of total assets                  |
| Auditor Size        | AUDSIZE    | Type of the auditor (that is, 1 if auditor is a member of Big-4 auditing firms, 0 if auditor is not a member of Big-4 auditing firms). |
| Profitability       | PROFIT     | This is measured by return on assets (that is, net income/total assets).    |
| Firm’s Age          | FAGE       | This is measured by Log of the age of firm.                                |

### 3.4. Model development

The model employed to test the relationship between the voluntary disclosure level and firm characteristics is presented below:

\[
VDISCL = \beta_0 + \beta_1 FSIZE + \beta_2 AUDSIZE + \beta_3 PROFIT + \beta_4 FAGE + \beta_5 FSUR + \epsilon \quad (2)
\]

**Where:** $VDISCL$, voluntary disclosure index level; $FSIZE$, firm size; $AUDSIZE$, auditor size; $PROFIT$, profitability; $FAGE$, firm’s age; $FSUR$, firm survival; and $\epsilon$, the error term, normally distributed about a mean of 0.

### 4. Results discussion

#### 4.1 Descriptive statistics

Table 2 provides the minimum, maximum, mean, and standard deviation of the variables in the study. The table indicates that the level of average voluntary disclosure in the sample companies is 32% with a minimum of 21% and a maximum of 65%. It is consistent with Leventis and Weetman (2004) in Greece (37%); Al-Shammari (2008) in Kuwait (46%); Ghazali and Weetman (2006) in Malaysia (31%); and Hossain and Hammami (2009) in Qatar (37%). The low amount of voluntary information disclosed in the body of financial reports could be explained on the basis that this type of information is voluntary in nature, and no effective regulations enforce firms to reveal it. The results also, reveal that (31%) of companies sampled are audited by the big 4 audit firms. Profitability has -21.88 and 78.20 as minimum and maximum value respectively, mean value 16.65 and standard deviation 10.6343. Last independent variable, age of firm has 5 and 46 as minimum and maximum value respectively, mean value 16.45 and standard deviation 13.8721.

### Table 2. Descriptive statistics for study variables

| Variable            | Label  | Min  | Max  | Mean  | Std. Deviation |
|---------------------|--------|------|------|-------|----------------|
| Voluntary Disclosure Level | VDISCL | 21.11| 64.86| 31.92 | 13.6684        |
| Firm Size           | FSIZE  | 9.96 | 17.82| 13.92 | 2.6087         |
| Auditor Size        | AUDSIZE| 0    | 1    | .310  | .46790         |
| Profitability       | PROFIT | 21.88| 78.20| 16.65 | 10.6343        |
| Firm’s Age          | FAGE   | 4    | 46   | 16.45 | 13.8721        |
| Firm Survival       | FSUR   | 0.00 | 1    | .3095 | .44865         |

#### 4.2. Correlation matrix and multicollinearity analysis

Multicollinearity in explanatory variables has been diagnosed through analyses of correlation factors and Variable Inflation Factors (VIF), consistent with Weisberg (1985); Al-Shammari (2008); and Hossain and Hammami (2009). Table 3 presents the correlation matrix of the dependent and independents variables, from which, it has been observed that the highest simple correlation between independent variables was 0.655 between auditor size (AUDSIZE) and firm’s age (FAGE). Bryman and Cramer (1997) suggest that simple
correlation between independent variables should not be considered harmful until they exceed 0.80 or 0.90. This confirms that there is no multicollinearity among the variables. The further confirmation of multilolinearity assumption is checked by variance inflation factor (VIF). The (VIF) in excess of 10 should be considered an indication of harmful multicollinearity (Neter et al., 1989). Alternatively, if the average VIF is substantially greater than 1 then the regression may be biased (Bowerman and O'Connell, 1990). Table 4 shows that the average VIF (1.47) is close to 1 and this confirms that collinearity is not a problem for this model. These findings suggest that multicollinearity between the independent variables is unlikely to pose a serious problem in the interpretation of the results of the multivariate analysis.

Table 3. Correlation coefficients Matrix of the variables used in the study:

| Variable | VDISCL | FSIZE | AUDSIZE | PROFIT | FAGE | FSUR |
|----------|--------|-------|---------|--------|------|------|
| VDISCL   | 1      |       |         |        |      |      |
| FSIZE    | .584   | 1     |         |        |      |      |
| AUDSIZE  | .340   | .137  | 1       |        |      |      |
| PROFIT   | .224   | .342  | .224    | 1      |      |      |
| FAGE     | .207   | .136  | .655    | -.640  | 1    |      |
| FSUR     | .476   | .223  | -.424   | .173   | .374 | 1    |

4.3. Multivariate analysis

As in many previous disclosure studies, regression analysis has been preferred to investigate the association between firm characteristics and voluntary disclosure level of Egyptian companies. Results of an Ordinary Least Square (OLS) regression in Table 4 show that the F-ratio is 12.84 (P = 0.00). The result statistically supports the significance of the model. The value obtained for the adjusted coefficient of determination R square of the model was .6198. This tells us how much of the variance in the dependent variable (total voluntary disclosure index) is explained by the model. Given these results, the study concludes that the variables considered in the model largely explain the voluntary disclosure of companies.

4.4. Results of Regression Model

Table 4 provides the results of the OLS regression for the model using the stepwise method. Firm characteristics including firm size; profitability; and age of firm have positive and significant relationship with voluntary disclosure index. While auditor size has positive but insignificant relationship with voluntary disclosure index. Unless otherwise noted, the following discussion refers to the normal scores-regression results which are in complete agreement from the rank regression results.

The hypothesis H1 predicted a significant and positive relation between companies’ size and voluntary disclosure. The study result supports this hypothesis. The firm size has been found to be significantly and positively correlated with disclosure level. In a number of studies, suggesting that larger companies disclose more information, either mandatory or voluntary, than smaller companies (Cooke, 1989; Meek et al., 1995; Hossain et al., 1995; Camfferman and Cooke, 2002; Eng and Mak, 2003; and Wang et al., 2008). The argument rely on the fact large firms tend to have more voluntary disclosure because they need more financing capital than smaller firms. Furthermore, large firms are closely watched by investors and have the ability to absorb extra costs for broader disclosure. This positive statistical significant result between the firm size and the voluntary disclosure can be also explained by the fact that larger firms make a more extensive use of the capital markets and have a greater number of analysts following them (Lang and Lundholm, 2000). These facts make the companies willing to provide more information to the market. Furthermore, this result also shows that companies are worried about their legitimacy. Companies that feel more observed tend to increase the level of disclosure to keep their reputation and ensure their survival (Alivar, 2006).

Table 4. Regression results

| Variable | β     | t-value | Sig. | VIF |
|----------|-------|---------|------|-----|
| Constant | -8.287 | -3.936  | .000 |     |
| FSIZE    | 2.157  | 3.697   | .037 | 1.38|
| AUDSIZE  | .046   | .726    | .376 | 1.42|
| PROFIT   | .358   | .892    | .024 | 1.23|
| FAGE     | .318   | 2.953   | .065 | 1.49|
| FSUR     | -1.962 | -5.154  | .0127| 1.87|

Model Summary

| R      | .7873 |
| R square | .6198 |
| Adjusted R square | .5842 |
| F-value | 12.84 |
| Sig.   | .00   |

Dependent variable: VDISCL Significant at .05%
This study recommends to management and auditors of Egyptian companies to improve the quality and reporting of annual reports. However, auditor size and firm's age do not have any significant association with voluntary disclosure level.

Their creditors and customers, improve their profitability and value of shares. Also, regulatory bodies in Egypt have got some implications; they are expected to guide firms toward the best practices of voluntary disclosures. The non-significance of auditor type in explaining variation in corporate disclosure is consistent with the vast majority of prior studies in both developed capital markets (for example, Malone et al., 1993; Wallace et al., 1994; and Camfferman and Cooke, 2002) and emerging capital markets (for example, Chen and Jaggi, 2000; Haniffa and Cooke, 2002; Gul and Leung, 2004; Barako et al., 2006; and Hossain and Hammami, 2009).

The hypothesis H3 predicted a positive relation between companies' profitability and voluntary disclosure. This study result supports the previous hypothesis. This result suggests that companies that are performing well tend to voluntarily disclose more information. The positive statistical significant relation between organizational profitability and the voluntary disclosure index also corroborate the argument of Meek et al., (1995) and of Hossain and Hammami (2009). Also according to Wang et al., (2008) as the firm’s earnings increase, managers have incentives to supply more information to the market in order to signal quality. On the other hand, voluntary disclosure helps investors to differentiate the high quality stocks. Furthermore, this result can also analyse in light of the legitimacy theory. In this sense, companies with good performance feel persuaded by the social contract to perform voluntary reporting of their activities and results. According to the signaling theory, it was expected that managers of companies that are performing well disclose more information about their present situation, in order to send signs to the market about the quality of the companies they manage (Alivar, 2006).

The results in Table 3 and 4 don’t find a statistical significant association between firm’s age and the voluntary disclosure index, but the coefficients are positive. This finding lends non-support to Hypothesis 4. This can be explained by the signaling objectives and the legitimacy of the newly listed companies and is consistent with that found by Bushee et al., (2003); and Akhtaruddin (2005).

5. Conclusion
This paper reports on the level of voluntary disclosure of a sample of non-financial Egyptian firms listed on the Egyptian Stock Exchange over the period 2007-2010 and, then investigates the association between the level of disclosure and firm-specific characteristics. Unweight disclosure index, compiled of 60 voluntary items, was computed for each firm. The study found that firms, on average, report 0.32 percent of the voluntary information. The low disclosure level most likely relates to the fact that this type of information is voluntary in nature, and no existing disciplines set out by the authoritative accounting and reporting bodies in Egypt require public firms to display such information. In other words, voluntary disclosure is left to the discretion of management. Further, in an effort to examine the relationship between the voluntary disclosure level and firm-specific characteristics, the results of univariate and multivariate analyses indicated that firm size and profitability have significant positive association with voluntary disclosure level in annual reports. On the other hand, auditor size and firm’s age do not have any significant association with voluntary disclosure level.

This study recommends to management and auditors of Egyptian companies to improve the quality and reporting of voluntary disclosure in their annual reports. This will enhance the confidence of their investors, satisfying their creditors and customers, improve their profitability and value of shares. Also, regulatory bodies in Egypt have got some implications; they are expected to guide firms toward the best practices of voluntary disclosures since firms look for such guidance. They play a motivating role in this new era of information disclosure.

As with any research, this study has some limitations. The following limitations are the most pertinent. First, the items constituting the disclosure index were subjectively assembled from three prior studies. The choice of the items, however, does not reflect their level of importance as perceived by financial information users. Second, annual reports have been used as the sole source of data gathering, others such as web sites and press releases could be used in future studies. Finally, the findings may not be valid for non-listed companies.

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### Appendix A: List of Voluntary Disclosure Items.

| Category                        | Voluntary disclosure items                                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| **Strategy**                   | General presentation of the company’s strategy  
Main corporate goals or objectives  
Main actions taken to achieve the corporate goals  
Definition of the deadline for each corporate goal  
Corporate position related to ethic/social questions  
Corporate position related to environment issues  
Detailed segment/unit performance  
Evaluation of the commercial risk  
Evaluation of the financial risk  
Evaluation of other risks  
Corporate I&D/Innovation policy  
Organizational Culture  
Main events of the current year  
Information about annalists  
Other important strategic information |
| **Market and Competition**     | Identification of the principal markets  
Specific characteristics of these markets  
Dimension of the markets  
Identification of the main competitors  
Market shares  
Forecast of market growth  
Forecast of share market growth  
Impact of competition on profits  
Identification of markets’ barriers to entry  
Impact of markets barriers to entry on future profits  
Impact of competition on future profits |
| **Management and Production**  | Identification of the principal products/services  
Specific characteristics of these products/services  
Proposal for new products/services  
Changes in production/services methods  
Investment in production/services  
Norms of the quality of the product/service  
Rejection/defect rates (when applicable)  
Input/output rates (when applicable)  
Volume of materials consumed (when applicable)  
Change in product materials (when applicable)  
Life cycle of the product (when applicable) |
| **Future perspective**         | Result application proposal  
New action/initiative/event  
Forecasts of sales/results/cash flows  
Investment forecasts  
Return rates for each investment project  
Hypothesis considered in forecast  
Dividend policy  
Macroeconomic background |
| **Marketing**                  | Disclosure of marketing strategy  
Disclosure of sales strategy  
Disclosure of distribution channels  
Disclosure of sales and marketing costs  
Disclosure of brand equity/visibility ratings  
Disclosure of the customer satisfaction level  
Disclosure of customer mix |
| **Human capital**              | Description of workforce  
Description of the remuneration/compensation system  
Qualification policy of workers  
Value created by worker  
Employee retention rates  
Productivity indicators  
Strategies to measure human capital  
Other measures of Human capital |
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