

# Inside shareholders' effective tax rates and dividends <sup>☆</sup>

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## Abstract

Using information collected from the Swedish tax authorities, we calculate insiders' actual effective tax rates on dividends. With this unique dataset, we find a significant negative cross-sectional relationship between insiders' effective tax rates and dividend payout. This result is consistent with a tax-induced clientele effect for dividends. We also look at the impact of large block trades on dividends. We find that when insiders with zero effective taxes sell blocks, subsequent dividend payments are significantly more likely to decrease. This provides evidence that large shareholders are adjusting dividends for their individual tax situations.

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## 1. Introduction

Researchers have extensively examined whether shareholders form clienteles based upon taxed-induced preferences for dividends. *Ceteris paribus*, the higher the tax rate paid on dividends, the lower the preferred dividend payout. Furthermore, when a controlling shareholder is in a high tax bracket, he may set a relatively low dividend payout. Perez-Gonzales (2003) finds that for firms with large shareholders, changes in tax rates affect firm dividend payout policy. However, Barclay et al. (2007) (henceforth BHS) look at block trades from individuals (who are taxed on dividend income) to corporations (who are not taxed on dividend income) and do not find evidence that corporate blockholders use their power to increase dividends. They

conclude that taxes are not an important factor in a corporation's decision to receive dividend income.

We have collected a unique dataset from the Swedish tax authorities of the actual taxes paid by individual large shareholders. Although the tax code in Sweden is not identical to the US tax code, the average tax rate on dividends is lower for corporations than for individuals in both Sweden and the US. Also, like the US tax code, the Swedish tax code allows deductions against dividend income. As a result, for the insiders in our study, the effective tax rates paid on their dividend income varies from 0% to a maximum rate of 30%, with a mean and median of 17% and 30%, respectively.

A significant drawback of previous studies examining the relationship between dividend policy and marginal tax rates is that the actual personal tax rate of individual shareholders is generally unknown. As a result, researchers need to make assumptions about individuals' personal tax rates. For example, since corporations are not taxed on dividend income in the US, BHS assume that *all* corporations are in a lower tax bracket than individuals. However, individuals are allowed to reduce taxable dividend income

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through various deductions. Thus there are instances in which the effective tax rate on dividends of individuals is also zero.<sup>1</sup> In the BHS sample, any individual shareholder with an effective tax rate on dividends of zero would be miss-classified. This would make it difficult to find a tax-induced effect on dividends even if one actually existed.

Using the actual personal tax rates of large individual investors, we avoid the potential miss-classification problem discussed above. As a result, we are able to conduct more powerful tests of the relationship between dividend payout and taxes. We examine two questions: First, do shareholders form clienteles based upon their tax-induced preferences for dividends?<sup>2</sup> Second, do large shareholders receive private benefits of control by using their power to directly influence dividend payout for tax reasons (Shleifer and Vishny, 1986)?

We find a significant negative cross-sectional relationship between insiders' effective tax rates and dividend payout. This result is consistent with a tax-induced clientele effect for dividends. Although the average (and median) insider coalition has effective control with approximately 40% of the votes, this result cannot be used to indicate whether insiders use their power to actively manage dividends. We would find a negative relationship between insiders' effective tax rates and dividend payment, whether insiders lowered dividend payout to reduce their effective tax rates or instead first set dividend policy for reasons unrelated to taxes and then adjusted their deductions to reduce their effective tax rate.<sup>3</sup>

To address the question of causality, we perform a second set of tests of the impact on dividends of large block trades. If insiders set dividend policy for personal tax reasons, we expect that when blocks are traded to lower effective tax rate investors, firm dividends should increase in the years following the block trade. However, we find that when block sellers with the highest effective tax rate sell their blocks, there is no significant difference in the subsequent dividend yields, payout or probability of dividend cuts. These results imply that being able to protect dividends from taxes is not sufficient to induce large shareholders to increase dividends. Furthermore, these results are consistent with BHS, who found that when individuals sold blocks to corporations, which they assumed had lower marginal tax rates, dividends were not affected.

Alternatively, when blocks are traded to investors who have higher effective tax rates, dividends should decrease. We find that when insiders with effective taxes of zero sell

blocks, subsequent dividend payments are significantly more likely to decrease. This provides evidence that large (controlling) shareholders are adjusting dividends to optimize their individual tax situations. Although BHS examine block trades from individuals to non-taxed corporations, they do not examine the reverse: block trades from non-taxed corporations to individuals.

In summary, highly taxed controlling shareholders reduce dividends to avoid paying taxes. On the other hand, controlling shareholders with low marginal tax rates do not automatically increase dividends just because they will not pay taxes on their dividends.

In related work, Miller and Scholes (1978) and Brennan and Thakor (1990) have examined the effect of taxes on whether an insider shareholder prefers for capital gains or dividends. Graham and Kumar (2006) find that retail investors with higher incomes (and presumably higher tax rates on dividends) prefer lower dividend paying stocks.

The dividend studies are not limited to individual preferences. Eckbo and Verma (1994) hypothesized that a firm's dividend policy was a result of consensus building among heterogeneous shareholders. Also, Lie and Lie (1999) showed that as institutional ownership of shares increases, a firm's dividend policy is more closely associated with shareholder preferences.

In the next section we discuss the Swedish tax code for dividend income. We describe the data and define the variables in Section 3. In Section 4, we report our empirical results. Finally, in Section 5, we present our conclusions.

## 2. Swedish tax code

In Sweden, individuals, corporations and financial institutions are each subject to different rules and tax rates on dividend income. For individuals, for our study period 1991 to 1995, dividends, capital gains and interest income were all classified as capital income. All capital losses from the sale of shares and other financial instruments of a similar kind could be subtracted from capital gains and dividends on similar instruments. Also, as shown in Table 1, the tax rate for dividend income for all types of taxable entities for the years 1991 to 1995 remained constant with the exception of 1994.<sup>4</sup>

For corporations, all taxable income of any kind is considered income from trade and business and is then taxed at a flat rate. This rate was 30% from 1991 to 1993 and 28% for 1994 and 1995. In order to avoid double-taxation of dividend income, dividend income is generally tax-free for holding companies and for other corporations which hold a vote portion of at least 25% in the dividend-paying company. A shareholding of less than 25% of the votes is

<sup>1</sup> Peterson et al. (1985) showed that in the US for their study period the estimated marginal tax rate on dividends was 40% while the effective rate was 30%.

<sup>2</sup> Miller and Scholes (1978) and Brennan and Thakor (1990) have examined the effect of taxes on an insider shareholder's preference for capital gains or dividends.

<sup>3</sup> Another advantage of our study is that we do not need to consider whether the insiders had the firm buyback shares rather than pay dividends to avoid taxes, since share buy backs were against Swedish corporate law for the time of our study.

<sup>4</sup> In 1994 the conservative government temporarily lowered the top marginal rate on dividends to 0% and 12.5% on capital gains. However, there were severe restrictions on the amount of dividends that firms could distribute.

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