State Ownership and Market Liberalization Evidence from Chinds Domestic M&A Market

Ming Ma

Beijing Institute of Technology School of Management & Economics, 5 South Zhongguancun Street, Beijing, China 100081 E-mail<u>: maming@bit.edu.c</u>n

> Xian Sun* Johns Hopkins University 100 N. Charles Street Baltimore, MD, 21201 E-mail: xian.sun@jhu.edu

Maya Waisman Fordham University 113 W 60th St. New York, NY 10023 E-mail: <u>waisman@fordha.e</u>du

* Corresponding author

consistent with the conventional belief that NSOEs make more efficient and profitable usage of target assett han SOE acquirers

However, when comparing the change in longerm market and accounting performance, measured as the difference between -post premerger asset productivity, profitability and market and size adjusted back hold returns, we find that SOE acquirers experience a significantly larger long-term performance improvement compared to their nonstate counterparts When partitioning the sample period into acquisitions made prior do the prior do the status China's 2005 split hare reform in which nontradable shares were converted into tradable status we find that the large ost merger performance improvement of SOE acquirers concentrated among M&As conducted shortly before the form.

Until the year 2005, both SOE and NSOE sharres by Chinese domestic investors were split into tradable and norradable categories with non-tradable bares representing more than two-thirds of China's corporate sto1(at)o1(at)oNSOo mda2.3 Td a 0 Tc 0. Tc 0.058 Tw Td [

inefficient corporate governance systems sociated with mismanagement and even fraced very 2005 it was clear that the systems structure created an illiquistock market, with the better Chinese companies choosing to list abrbatter that year, cognizant of these challenges, central planners put in place splitshare reform⁴

Our results of a stronger persterger performance improvement of SOE acquire compared to SOEsfollowing China's splitshare reform are consistent with interpretation that reform-induced increase in stock liquidity was particularly beneficial to SOEs that were historically suffering from weak corporate governar Der(g etal., 2007; Jian and Wong, 2010). To the extent that enhanced market liquidity resignations arket prices that respond more quickly to illicit activities by corporate managers, we would expect a decline in those activities following the reform, and therefore an improvement inpbetmerger performance SOEs compared to the premergerperiod. Increased liquidity might also influence managerial incentives and better align controlling shareholdersinterests to those of minority shareholders stock values become more strongly tied to firm performanized eed Campello, Ribas and Wan(2014) report a positive effect of the reform on firm performance efficiency particularly for SOEs, with some evidence of decline in related party transactions d intercompany loans Thus reform-induced improved corporate governancembined with SOEs' political and business connectionsprivilegedaccess bank financing and government influence in competing for the right target, could explain the stronger & performance improvement of SO Ecquirers compared to the NSOE counterparts

³ Deng et al. (200)7report that 90% of the SOEs that went public between 196972600 were later involved in "disadvantageoutransactions with their parefitrms". These transactions were fairly large and represented, on averagemore than 13% of the listed fins' assets.

⁴ We describe the reform in more detail in section 2 of the paper.

Our study contributes to the literature in several warigest, this is the first study to exalta the chinese economy is growing in such a fast pace, it is essential to understand how government intervention and capital market liberalization can alter merger outcomes. Second, Chinais one of the largest world economites we still know very little about how its unique institutional setting affect local industries and business this study, we provide evidence that M&A outcomes, especially SOE related dealese significantly affected by government intervention. Consistent with Frye and Shlefler's (1997) elping hand modeland with the evidence in Calomiris et al. (2010) ur findings support the interpretation and government intervention, possibly the form of political connections and capital market reform alselping SOE acquirers in the M&A market no outweigh the inefficiency costof state ownership in China.

Finally, a number of recent studies look at the economic consequences of equity market liberalization, and our results have clear connections with their lifes (ee,e.g., Levine and Zehros, 94998;-BertaGro(d)-aD(820)150 ((2(n))84(e)260;53(6)n1455(910TJ(0)TJ2036021)3985;8T(c)]0-134827ems56(987[(

The remainder of the paper is organized as following. iSec2 introduces the institutional background of China's M&A marketescribes the splitharereform, and discusses its potential implications for M&A performancefor state owned firmsSection 3 describets data, methodology and variables d provides summary statistics. Section 4 presents the main results and Section 5 concludes.

2. State ownership, market liberalization and China's M&A market

2.1. The institutional naturef China's M&A market

The volume of China'sM&A markethasreached record highof 268 billion US dollars

embarked on a coathine reconstruction scheme that a significantly educing the number of coal mines. Almost all private coal mine companies were forced to accept the merger offers of SOEs with the government providing deal valuations that were not based on market or negotiated price (Zhou et al., 2011)

The move towards market liberalization in China is seen by many observers apoant fiex to the unsuccessful reformorf SOEs initiated in 1979. Since that reform, the protocols of SOEs relatively more freedom than state shareholders **binding** how to allocate profits and formulate and implement firm strategy (Delios and Wu, 2005).

The direct result of thidual share ownershiptructure was that SOEs remained under the tight control of nontradable, government or government affiliated shareholders NSOEs were controlled by notradable, legal person (institutional) shareholders sequently 98% of all domestic, publically listed companies in Chir(A - share firms) had anywhere from 2080% of their shares under the nontradable structure at the end of 2004 (Campello et al., 2014).

The Chinese splitshare structure has long been inticized for causing agency conflicts between nontradable controlling shareholders and minority tradable shareholders. In fact, the interests of tradable and notradable shareholders diverged significantly cause these two classes of shares had different prices but the same voting and cash filed by tradable shares, nontradable share prices were based on the book value of firm assets rather than on the stock's market performance. As a result, contiting shareholders between the stock is to monitor executives to maximize enterprise value.

The misalignment of interests between controlling and minority shareholders was particularly pronounced in state firms, whethere top management and board of directors were appointed by the state, another concerns and entrenchment ledartoinefficient corporate governance systems sociated with mismanagement and even fraud (Deng et al., 2008).

To address theagency conflict between nontradable controlling shareholders and tradable minority shareholderparticularly in SOEs, China launchedhe split-share structure

A second long-term, stock performance measure we use in the analysis is theyteaneebuy-and-hold return (BHAR). We calculate an acquirer's markeetd size adjusted BHARswith the acquisition announcement month as the purchase month calculate BHARswe follow Mitchell and Stafford 2000) and measure the three buy and hold abnormal return for each acquirer as the difference between the three buy-and-hold return of the acquirer and the three yearbuy-and-hold return of an appropriate size and booke-market portfolio. Both value weighted and equal/eighted averages of BHAsPare computed across acquirers.

We also use two additional, accounting based, **teng** performance measures, which arean acquirer's total asset productivity, TArTeasured as the ratio of sales to the market value of total asset(s)19 niTc -

assets.We define operating cash flows as sales, minus cost of goods sold and selling and administrative expenses, plus depreciation and goodwill expenses. This measure **is by**eflate the market value of assetts provide a return metric that is comparable across flm ass reported by Healy, Palepu and Ruback (1992),rtheasure excludes the effect of depreciation, goodwill, interest expense and income, and taxed is therefore unaffected by the method of accounting for the merger (purchase or pooling accounting) and the method of financing (cash, debt, or equity)As with our other accounting performance measures, we calculate the change in OCF/TAby subtracting the acquireraverage, industry adjust@CF/TAin the three years prior to the M&A announcement from the merged firm three, industry adjusted verageOCF/TA following the M&A announcementera

Throughout the analysis ve also use acquirer andeal specific characteristics. Our acquirer related measures inclutible market value four weeksprior to the announcement (Market Value 4 wks Prio), measured as the sum of the market value of equity, the marged debt, debt in current liabilities, and the liquidating value of preferred stores, value of total assets one year prior to the acquisition announcement are also in the same qua (Glize); the market tobook ratio (MtB), measured one year in to the acquisition announcement determined as longerm debt to total assets one year prior to the announcement to the acquisition announcement are also in the same qua (Glize); the market tobook ratio (MtB), measured one year prior to the acquisition announcement and the announcement and the percentage of tradable shares held by the acquiring %rTira(dable);

Deal characteristics include transaction size an (saction Value), which is defined by SDC as the total value of consideration paid by the acquirer, excluding fees and examends as Relative Size measured as the ratio of the transaction value to the acquirer's market value 4

¹⁰ We thank the referee for making this suggestion.

weeks before the announcement. We include the percentage of target shares owned by the acquirers prior to the focal M&A announceme The thold); a dummy variable to denote high-tech industry affiliation for the target firm H (tech); a dummy variable to denote whether the acquirer's two digit SIC code is the same as the target's (10(en)-()]TJ /

about 42% (unreported) Consistent with the interpretation SOE government ownership is highly concentrated Chenet al. (2009) also export that the second largest SOE ockholderholds on average, only 5% of the firms chares In addition, Zhou et al. (2010) report there is only a small chance that a noticate firm (NSOE) in which the second or third largest shareholder could be a government stakeholder has the same strong political connections and privileges SOEs. The difference in ownership structure between SOEs and NSOEs is therefore strongly distinguishable and associated with strong political connections for SOEs

Note also that during our sample per6.79 0 T0C,[(as)-15(3)-4()]TJ 0 Tc 0 Tw [(s)-4 6he .5 0

[Insert Table 1 Here]

Table 2 presents summary statistics of the quirers in our sample by state ownership affiliation. Our sample includeonly completed dealswhere the acquirer holds at least 50% of the targets shares outstandingNot surprisingly, stateowned acquirers are significantly larger with an average asset size (market value)64/3\$7 million(\$927.8 million) compaed to \$298.7 million (\$585.9 million) for non-stateowned acquirers. We also measure the acquirer's average relative ranking in the market in the year prior to the acquisificantly (and find similar results whereSOE acquirers are significantly larger than their NSC2E quiring counterparties the same fiscal year.

[Insert Table 2 Here]

Consistent with the fact that SOEs cluster in traditional industries, and Errersalso have a significantly lower marketto-book ratio (MtB), suggesting a lowegrowth potential compared their nonstateownedcounterpartsTable 2 also show that NSOEs are more likely to acquire higher targets and have more tradable shares than their SOE counterparts.

The summary statistics of deal characteristics shows that the average transaction size of SOEs is \$175 million, significantly larger that he \$81.9 million by the nonstate acquirers. Compared to NSOEs, SOEs also have equivable and the second percentage to the percentage to the second percentage to the second percentage firms are more likely to take over public targets and targets in related industries, dmore likely to conduct friendly M&As

Lastly, Table 2 shows the summary statistics of acquipersormance in the year prior to a focal M&A, measured by total asset turnoverT(AT), calculated as the ratio of sales to total assets; pretax operating cash flows to total asset (CEF/TA), measured as sales, minus cost of goods sold and selling and administrative expenses, plus depreciation and goodwill exprementes.

assets and return on asset (\$ROA), calculated as net income divided tory al assets The results show that SOEs enjoy one what higher total asset turnove than NSOEs one year prior to the acquisition announcement, however, operating cash flows scaled by assets and return on assets are not significantly different betweethe two acquirer groups. These mparative performance results could suggest that while SOEs ay enjoys one preferential reatment in selling their products, which results in a higher total asset turnover raties are not more profitable an their NSOE counterparts

4. The Effect of State Ownership on PostM&A Performance

In this section we examine the effect of state ownership affiliation the difference between post and premerger performance of Chinese acquirence use short and longerm stock performancemeasures, as well as longerm accounting performance measures estimate whether state affiliation is beneficial or detrimental for state owned performance measure is represented by the there exists a normal return $\mathcal{C}A(R)$ around the announcemediaty (1,+1).

The longterm, stock baseoperformance measure tise threeyear buyandhold return (BHAR). We calculate an acquirer's markant size-adjusted BHARs with the acquisition announcement month as the purchase monthermore monthermore for CARs and BHARs are reported in Table 3.

[Insert Table 3 Here]

The results in Panel A show that the average CASR all acquirers with completed deals in our sampleare 1.1% (significant at the 1% leve) suggesting that the mark effects positively to those M&As. This positive announcement effects, however, is particularly significant for nonstate acquirers but insignification SOE acquirers. The insignificant announcement effect for SOEs and the positive and significant announcement effect for NSOEs is consistent with the conventional belief that NSOEs make more efficient and profitable usage of target assets as - as 3 is

4.2. Accounting Performance

In this section, we examine the effect of state ownership on the change Anpleticormance around the acquisition announcement by using-tengen accounting measures.eWheasure the industry adjusted change in M&A performance as the difference betwetter averagevalue of the industry adjusted performance measure three years afferdeal (t+1, t+3) and three years prior to the deal (t

To examine the source of theng-term

The summary of performance charfigethese subgroups are presented in Table 5, where Panel A presents the results of completed deals with control rights transfer and Panel B replicates the same tests for a subgroup of incomplete acquisitions

[Insert Table 5 Here]

In Panel A, we compare the performance charageesind the acquisition eventur state owned acquirersand non-state acquirers. The results show that the performative performative differential between SOEs and NSOEs is driven Not Section Section ("Pre-Reform Negotiators" and Pre-Reform NorNegotiators) and is particularly pronounced and statistically significant among the group of P're-Reform Negotiators". These results suggest that the reform was playing an important role in improving the -prostger performance of SOEs, and in particular, the -prostger performance of SOEs in which nontradable shareholders were negotiating with tradable shareholders for trading rights.

The finding that tradingights-negotiatingSOEswere able to improve their pessterger performance more than thether acquirers in the sample is consistent with a recent pather by Wang, Cheung and Jiang (20,1 Who find that more profitable firms, or firms in which performance was improving were eltip convert their notradable shares to tradable status on better terms(by paying lower compensation to minority shareholdeerstrading right). Thus to the extent that corporate managers exact rolling shareholders mew theyhad to comply with the reform by negotiating with minority shareholders and converting their shares into tradable status they had a stronger incentive to improve firm performance not only because thew kne that their wealth will be more stronglived to firm performance once their shares are tradable but also because better firm performance allow them to pay less to minority shareholders for the right to trade their shares.

To identify whether the improvement in profitability is caused M&A synergy or just by the share reform we also replicate the results by looking astample of ncomplete deals in Panel B. The resultshowever, show that there is no significant difference in performance changes between SOEs and SOEs that are involved in unsuccess and quisitions.

To summarize, the results Table 5 suggest that the significantly largeerformance improvement of stateowned acquirers is driven by SOEs theatre subject to the share reform shortly after the acquisition Combined with the results of the incomplete deals ample this suggest that the synergy value of Chirsa M&As depends on two factors the privilege of SOEs in the process of eorganizing their assets rough M&As and the improvement in efficiency especially profitability following the M&A through the share reform The results also suggest that nonstate firms, though usually characterized by higher efficience any not achieve the synergy through M&As probably due to their disadvantages in competing for the best assets with their stateowned counterparts.

Table 6 present the summary statistics of BHARby the foursubgroups SOEs as defined aboveConsistent with the results in Table 5, the significant and positive BlfbArRs SOEs are particularly large for the group of SOEs that experienced share reforms hortly after the acquisition and negotiated for onverting their non-tradable shares into tradable status shortly after.

4.4. Regression Analysis

In this section, we conduct regression analysizettify that the univariate results are not driven by deal, acquirer or target characteristice results are reported in Table The dependent variables are TAT OCF/7 \$ D BOOA, respectively State affiliation is denoted in the year prior to the dea(StateOwned_1) and the share reformariables are measured in the three years following the deal. Our four reform related sub groups of acquirers are defined as in Tables 5 and 6, where our first subgroup includes acquirers that were subject **gov#re**ment's share reform within less than three years after the acquisition, and also negotiated to convert their nontradable shares into tradable status within two years after the reform R(#form Negotiators)^{*}; our second subgroup includes acquitest were subject to the reform prior to the deal but were We also identify whether some nonstate acquirers become statened following an M&A. To capture any effect of this reverse ownership change, we include a dummy variable, Non-State to State 41, t+3). All models include year and industry dummies.

Model 1 present the results for the changes in totals bet turnover. After controlling for firm characteristics, state whership does not explain the changes in asset turnover significantly suggesting that controlling for everything else, asset turnover is impatibly factors other than ownership structure. More importantly however, Models 2 - 3 confirm the results for changes in operating cash flows and profitability ound the acquisition even Specifically, Models 2 and 3 show that state wheel acquirers are associated with significantly higher improvement in

BHARs After controlling for firm and deal specific factors, the results show this typositive

arranged or assisted by the vernment (central or local) or isstateowned parent companies. And third, China went through an important dushare status reform 2005, in which owners of non-tradable shares had to convert their shares into tradable status.

In our analyse, we therefore test the hypothesis that subateership matters in M&A performanceby comparing the change in longerm market and accounting performance, measured as the difference between -posst premerger asset productivity, profitability and buy-and-hold returns for SOEs and NSOEs. While we find that the market has generally more confidence in NSOE acquirers in the shround, we alsofind that SOE acquirers experience a significantly larger longerm postmerger performance improvement compared to theirstwate-counterparts. When partitioning the sample period into acquisitions made prior to and following China's 2005 splitshare reform, we find that the larger porsetrger performance improvement of SOE acquirers is concentrate among M&As conducted shortly before the announcement of the reform.

These findings highlight the imptant role of the government and its agents in China's capital market, particularly in the asset restructuring process. The synergy value

and with other papers that show that Solequirers benefit from government intervention through privileged access to state and bankfunding and political connections. As such, this paper is the first step to better understanding the role of state ownership and financial market liberalization in shaping M&A outcomes in the corporate sector

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Szamosszegi, A., and C. Kyle. 2011. An Analysis of Strateed Enterprises and State Capitalism in China, USC hina Economic and Security Review Commission.

Tseng T. Y.,

Table 1

Aggregate Transaction Value by Industry and by State Ownership: Top 15 Industries

This table includes all transactions that are not-set fider (where the acquirers and the targets have the same ticker symbols or have the same names if the target is private) and are not between related parties (where they share the same controlling paralist). extremely be deals where the acquiring firms are in bankruptcy and where the acquiring firms' operation where the suspended due to poor financial performance or policy changes. Support the acquirers are defined as firms in which the controlling shareholder (largest shareholder) is a station of enterprise or a government agency. State Acquirers include addition and the acquirers.

Rank	StateOwned Acquirers(N=201)				Non-State Acquirer\$N=163)			
	Name	Transaction (\$ mil.)	Percentage	Accumulative Percentage	Name	Transaction (\$ mil.)	Percentage	Accumulative Percentage
1	Chemicals and Allied Products	10,670	27.463%	27.463%	Chemicals and Allied Products	3,428	16.363%	16.363%
2	Primary Metal	5,088	13.096%	40.559%	Business Services	3,298	15.744%	32.106%
3	Transportation Equip.	3,380	8.700%	49.259%	Ind. and Commercial Machinery and Computer Equip.	2,324	11.090%	43.197%
4	Electric Gas and Sanitary Services	2,996	7.710%	56.969%	Electronic	2,061	9.835%	53.032%
5	Heavy Construction Contractor	2,448	6.300%	63.269%	Food	1,531	7.306%	60.338%
6	Oil and Gas Extraction	1,808	4.652%	67.922%	Petroleum Refining	1,486	7.093%	67.430%
7	Electronic	1,805	4.645%	72.567%	Communications	1,421	6.780%	74.211%
8	Business Services	1,412	3.635%	76.202%	Electric Gas an Sanitary Services	949	4.527%	78.738%
9	Local Passenger Transport	1,374	3.537%	79.739%		I I		

Table 3The Announcement Effect of State and Notate Acquisitions

This table shows how state affiliation affects an acqui@A&Rs and BHAR The shortterm performance measure is the thday cumulative abnormal return (CAR) on the day othe announcement. We use the standard estedty approach, excludingeals with transaction values that are less than 1% of the acquirer's market value four weeks prior to the acquisition announcement. We also require that all the acquirers in the sample have stock inforfoat@00 days before the announcement date so as to have a 255 estimation window endtains placer to the announcement withe timinimum requirement of the estimation windowlength is 100 days. The longrm performance measure is the thyeer buyand-hold return (BHAR). We calculate an acquirer's market and size adjusted BHAR with the acquisition announcement month as the purchase ntibetsymbols *, **, and *** denote statistical significance at the 10%, 5%, and 1% levels

	All (N=364)	Stateowned(N=201)	Non-State(N=163)	Diff.
Completed and Acquired more than 50%				
CARs (1, 1)	0.011***	0.007	0.017***	-0.010*
Market				

Table 4 Changes in Operating Performance

This tablepresents the summary of the changes in performance by ownership st/\Utetureeasure the change in performance as the industry adjusted change in the average value of the performance measure between the three years after the deal (t+1, t+3) and the three years prior3tot-the value of transactionTotal asset turnov(iTAT) is measured as the ratio of sales to the market value of total assets; IROA), measured as net income over the market value of total assets; IROA), measured as net income administrative expenses, plus depreciation and goodwiderese; scaled by the market value of total assets; *, **, and *** denote statistical significance at the 10%, 5%, and 1% levels

Table 6Long-Term MarketM&A Performance Changes of SOEs and NSOEs around the Shalite Reform

This tableshows howlong term stock performance as fected by state ownership and by the share reform Pre-Reform Negotiators are as ubgroup of acquirers that were subject to the government's share reform within less tha Interove cc

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Table 7Regression AnalysisAccounting Performance

This table presents the results of a regression antialyst I WKH DFFRXQWLQJ SHUIRUPDQFH FKDQJHV DTATR X0006TA0 BVQ BOAK H GHSHQG respectively. The ownership startariables are measured in the year prior to the deal and the reform valiable are measured in the three years after the deal. The ownership variables prior to the deal are dummy variables iteratude StateOwned-1 (denoteswhether the acquirer is stateowned), (Stateowned) *(Pre Reform Negotiators) (t+1, t+3) (denoteswhether the acquirer is state-owned and has shares floated already before the M&A), Foreign Qw(destripeswhether the acquirer has foreign ownership), and Mgmt Ownership, (denoteswhether the acquirer has management ownership). Year and industry dummies are included for all models. The symbols *, **, and *** denote statistical significance at the 10%, 5%, and 1% lev/Bhe reported pralues in the parentheses reflect White's heteroskedasticity correction. Convetantend industry dummies are included but not reported brevity.

	Model 1	Model 2	Model 3
	"TAT	"OCF/TA	["] ROA
Pre Reform Negotiator	-0.060	0.015** *	0.016*
	(0.315)	(0.012)	(0.097)
Post Reform Negotiatora1, t+3)	0.031	-0.001	0.002
	(0.504)	(0.828)	(0.684)
Pre Reform Non Negotiators _{1, t+3)}	0.052	0.007	0.008
	(0.292)	(0.382)	(0.310)
(Stateowned) *(Pre Reform Negotiato)rs(t+1, t+3)	0.019	0.010	0.017**
	(0.704)	(0.169)	(0.019)
(StateOwned)*(PreReformNon Negotiators)1	0.017	-0.005	-0.014*
	(798)	(0.556)	(0.098)
Non-State to State 1, t+3)	0.008	-0.003	-0.003
	(0.894)	(0.791)	(0.864)
Foreign Ownership	0.131	-0.003	0.001
	(0.370)	(0.889)	(0.959)
Mgmt Ownership₁	0.080	-0.003	0.005
	(0.705)	(0.767)	(0.724)
"Leverage	-0.056	-0.083***	-0.088***
	(0.539)	(0.000)	(0.000)
LnTA _{t-1}	-0.030*	-0.011***	-0.008***
	(0.093)	(0.000)	(0.001)
MtB	0.006	-0.001	-0.001
	(0.107)	(0.522)	(0.925)
RelativeSize	-0.039*	-0.001	-0.001
	(0.060)	(0.776)	(0.890)
Related	0.027	-0.009*	-0.010**
	(0.365)	(0.043)	(0.026)
Toehold	-0.065	-0.005	-0.005
	(0.401)	(0.573)	(0.509)

TgtHit**g**∂q7

Table 8Regression Analysis:ong-Term Stock Performance

This table presents the results of the regression analyses of the **regression** analyses of the **regression** analyses of the **regression** are used in the presents the results of the regression analyses of the **regression** are used in the present of the **regression** analyses of the **regression** are used in the present of the **regression** and **regression** analyses of the **regression** are used in the present of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** analyses of the **regression** analyses of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** analyses of the **regression** are used in the **regression** analyses of the **regression** and **regression** and **regression** and **regression** analyses of the **regression** analyses of the **regression** and **regression** analyses of the **regression** analyses of the **regression** and **regression** analyses of the **regression** analyses of the **regression** and **reg**

	Adjusted BHAR		
	Model 3	Model 4	
StateOwned_1	0.224** (0.013)		
(State Owned)*(Pre Reform Negotiators, t+3))		0.337* (0.077)	
Post Reform Negotiator(81, t+3)		0.211 (0.101)	
Pre Reform Non Negotiators, t+3)		0.261 (0.253)	

Unaffected (t+1, t+3)



Aggregate Transaction Value of Completed Acquisitions by Year and State Own(&rBillions)

Figure 1