Asymmetries in the Firm’s Use of Debt to Changing Market Values

Stephen P. Ferris†, Jan Hanousek*, Anastasiya Shamshur**, and Jiří Trešl***

Abstract

Using a large sample of U.S. firms over the period, 1984 to 2013, this study examines the relation between market and book leverage ratios. Unlike Welch (2004) who contends that changes in market leverage do not induce adjustments in book leverage, we find an asymmetric effect. That is, firms adjust their book leverage relative to market leverage only when the changes in market leverage are due to increases in the value of the firm’s equity. No adjustment is observed when firm equity values decrease. We observe a number of interesting differences between those firms that make large and small capital structure adjustments in response to changing equity prices. Our results are consistent with Barclay, Morellec and Smith (2006) who argue that the optimal level of debt decreases in the presence of corporate growth options.

Keywords: market leverage; book leverage; capital structure; adjustment speed

JEL classification: G32; C23

We would like to thank Jan Bena, Demian Berchtold, Andrea Patacconi, Jack Rader. Stepan Jurajda, and participants of the various conferences including NOeG-SEA, CEA, MFS, Midwest AAA, and seminars held at the Copenhagen Business School, University of Nebraska-Lincoln for valuable insights.

† Stephen P. Ferris, University of Missouri, ferriss@missouri.edu

* Corresponding author. CERGE-EI, Charles University and the Academy of Sciences, Prague and CEPR, London. CERGE-EI, a joint workplace of Charles University and the Economics Institute of the Czech Academy of Sciences, Politickych veznu 7, P.O. Box 882, 111 21 Prague 1, Czech Republic. Telephone (+420) 224-005-119; Fax: (+420) 224-005-444; E-mail: jan.hanousek@cerge-ei.cz.

** Norwich Business School, University of East Anglia, Norwich; CERGE-EI, Charles University and the Academy of Sciences, Prague. Norwich Business School, University of East Anglia, Norwich, Norfolk, NR4 7TJ, UK. Telephone (+44) 1603 591459; E-mail: a.shamshur@uea.ac.uk.

*** Department of Finance and Law, Central Michigan University, Mount Pleasant, MI 48859; CERGE-EI, Charles University and the Academy of Sciences, Prague. Telephone (+1) 402 472 3445; E-mail: tresl1j@cmich.edu

The research was supported by GAČR grant No. 14-31783S. The usual disclaimer applies. All mistakes remain our own.