

# The Impact of Market Maker Competition on Nasdaq Spreads

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First published: 09 March 2005

<https://doi.org/10.1111/j.1540-6288.1999.tb00469.x>

Citations: 34

The views expressed herein are not intended to represent the views of the NASD. The authors are solely responsible for the content. The authors wish to acknowledge the helpful comments of Robert Battalio, Norman Moore, Jeff Smith, Hans Stoll, Bonnie Van Ness, Robert Van Ness, and an anonymous reviewer. The usual disclaimer applies.

## Abstract

This study utilizes a comprehensive database containing monthly information on the number of market makers for about 5,288 Nasdaq securities over an eight-year period to investigate the impact of competition on spreads. A variety of models are estimated in order to demonstrate the robustness of the results that include four specific findings: (1) the number of market makers has a negative and highly significant impact on spreads; (2) the relation is nonlinear with a decreasing impact by the marginal market maker; (3) Nasdaq spreads have been declining over time; and (4) structural changes in Nasdaq are associated with significant changes in the relationship between spread and the number of market makers. One improvement over the literature includes allowing endogenous competition through the use of instrumental variables.

## References

Baumol, W.J., J.C. Panzer, and R.D. Willig, 1982. *Contestable Markets and the Theory of Industry Structure* (Harcourt Brace Jovanovich, New York, New York ).

 | [Google Scholar](#) |

Benston, G.J. and R.L. Hagerman, 1974. Determinants of bid-asked spreads in the over-the-counter market, *Journal of Financial Economics* 1, 353-364.

 | [Google Scholar](#) |

Bessembinder, H. and H.M. Kaufman, 1997. A comparison of trade execution costs for NYSE and NASDAQ-listed stocks, *Journal of Financial and Quantitative Analysis* 32, 287-310.

 | [Web of Science®](#) | [Google Scholar](#) |

Christie, W.G. and P.H. Schultz, 1994. Why do NASDAQ market makers avoid odd-eighth quotes *Journal of Finance* 49, 1813-1840.

[Web of Science®](#) | [Google Scholar](#)

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Christie, W.G., J.H. Harris, and P.H. Schultz, 1994. Why did NASDAQ market makers stop avoiding odd-eighth quotes *Journal of Finance* 49, 1841–1860.

[Web of Science®](#) | [Google Scholar](#)

---

Doran, L.L., 1998. Nasdaq trading of NYSE-listed securities: Do NYSE bid-ask spreads encourage Nasdaq dealers to free-ride on NYSE quotes. *Working Paper*, Georgetown University.

[Google Scholar](#)

---

Dubofsky, D.A. and J.C. Groth, 1984. Exchange listing and stock liquidity, *Journal of Financial Research* 7, 291–302.

[Web of Science®](#) | [Google Scholar](#)

---

Fortin, R.D., R. Grube, and O.M. Joy, 1989. Seasonality in NASDAQ dealer spreads, *Journal of Financial and Quantitative Analysis* 24, 395–407.

[Web of Science®](#) | [Google Scholar](#)

---

George, T.J., G. Kaul, and M. Nimalendran, 1991. Estimation of the bid-ask spread and its components: A New Approach, *Review of Financial Studies* 4, 623–656.

[Web of Science®](#) | [Google Scholar](#)

---

Greene, W.H., 1997. *Econometric Analysis*, 3rd ed., (Prentice-Hall, Upper Saddle River , New Jersey ).

[Google Scholar](#)

---

Hamilton, J.L., 1978. Marketplace organization and marketability: NASDAQ, the stock exchange, and the national market system, *Journal of Finance* 33, 487–503.

[PubMed](#) | [Web of Science®](#) | [Google Scholar](#)

---

Hansch, O., N. Naik, and S. Viswanathan, 1997. Preferencing, internalization, best execution, and dealer profits. *Working Paper*, Duke University.

[Google Scholar](#)

---

Harris, L., 1994. Minimum price variations, discrete bid-ask spreads, and quotation sizes, *Review of Financial Studies* 7, 149–178.

[Web of Science®](#) | [Google Scholar](#)

McInish, T.H. and R.A. Wood, 1992. Competition, dispersion of trading and market performance. *Working Paper*, University of Memphis.

[Google Scholar](#)

McInish, T.H. and R.A. Wood, 1995. Hidden limit orders on the NYSE, *Journal of Portfolio Management* 21, 19–26.

[Web of Science®](#) | [Google Scholar](#)

Schwert, G.W., 1997. Symposium on market microstructure: Focus on Nasdaq, *Journal of Financial Economics* 45, 3–8.

[Web of Science®](#) | [Google Scholar](#)

Spence, M., 1983. Contestable markets and the theory of industry structure: A review article, *Journal of Economic Literature* 21, 981–990.

[Web of Science®](#) | [Google Scholar](#)

Stoll, H.R., 1978. The pricing of security dealer services: An empirical study of Nasdaq stocks, *The Journal of Finance* 33, 1153–1172.

[Web of Science®](#) | [Google Scholar](#)

Stoll, H.R., 1992. The economics of market making, *The NASDAQ Handbook*. 263–283.

[Google Scholar](#)

Tinic, S.M., 1972. The economics of liquidity services, *Quarterly Journal of Economics* 86, 79–93.

[Web of Science®](#) | [Google Scholar](#)

Tinic, S.M. and R. West, 1972. Competition and the pricing of dealer service in the over-the-counter stock market, *Journal of Financial and Quantitative Analysis* 7, 1707–1727.

[Web of Science®](#) | [Google Scholar](#)

Wahal, S., 1997. Entry, exit, market makers and the bid-ask spread, *The Review of Financial Studies* 10, 871–901.

[Web of Science®](#) | [Google Scholar](#)

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