## Earnings Management of Foreign Exchange Operation

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## **ABSTRACT**

Taiwan shows great power in international trade; therefore, foreign exchange rate has affected the income of import and export corporations, and then has affected the entire economy withered and prosperous. Facing the fast changing of the foreign exchange rate quotation and the multiplex financial commodity, if enterprises adopt hedging strategy accounting to the pulsation of the current situation and grasping the characteristic of the tools, they will control the future cash flow by arranging hedging and achieve the effect that control the income volatility. Therefore, this research will take derivatives as an operating point, and take hedging as the operating procedure to look for the best operating mode and hedging efficiency. And then confirming this hedging operation from the point of view of the earnings management whether the operation has reached income smoothing. This research took the 2000-2002 Taiwan Listed Companies as the study sample (67 firms) and used two-stage least squares method, the empirical investigations show the relation between the uses of discretionary accruals and derivatives for income smoothing. The resultants are that: the relation between the hedging ratio which counted by the hedging operation model and the variable degree of net income after tax was unobvious, and it indicated this hedging operation can effectively cause income smoothing. The substitute relation between the operation of forwards contracts and the uses of discretionary accruals support the policy of earnings management. In addition, when debt risk and exportation proportion are higher, company will make use of discretionary accruals to smooth the income. In contrast, when management compensation and exports are higher, perhaps short-term liquidity is lower; company will be partial to use of forwards contracts.

Keywords: income smoothing; minimum-variance model; forwards contracts

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## **REFERENCES**

一、中文部份 1、中華民國會計研究發展基金會財務會計委員會,1997,第27號金融商品之揭露,財務會計準則公報,6月20日。 2、 江佳玲(1999),國內企業使用衍生性金融商品避險之實證研究以上市公司非金融機構為例,國立中央大學財務管理研究所未出版之碩士論文。 3、高祥恒(2002),裁決性應計項目、衍生性金融商品與損益平穩化,國立成功大學會計研究所碩士論文。 4、李麗(1995),衍生性金融商品,初版,台北:三民書局。 5、林群雅(1996),台灣匯率風險規避策略之探討,國立台灣大學商學研究所未出版之碩士論文。 6、林坤霖,1998,年度間盈餘管理及其資訊內涵之研究,企銀季刊,22(1):85-99。 7、林怡君(2001),衍生

性金融商品影響盈餘管理決策之探討-以電子 業為例,中國文化大會計研究所未出版之碩士論文。 8、陳政德(1997),利用國外台股 指數期貨避險最適避險比率及其績效之探討,國立成功大學企業管理研究所未出版之碩士論文。 9、陳靜修(1998),我國上市公司衍 生性金融商品使用及財務報導之實 證研究,國立成功大學會計研究所未出版之碩士論文。 10、陳能靜、吳阿秋(2002),期貨與選擇 權,出版,台北:三民書局。 11、黃薏萍(2000),上市公司使用衍生性金融商品避險動機與行為之研 究,國立成功大學會計研究所未 出版之碩士論文。 12、劉孟宜(2001),新台幣匯率風險管理-外匯期貨及遠期外匯契約交 叉避險效益分析,逢甲大學保險研究所未 出版之碩士論文。 二、英文部分 1、Anderson, R. W., & J. P. Danthine (1981), Cross Hedging, Journal of Economy, 89: 1182-1196. 2 Sarton, J. (2001), Does the Use of Financial Derivatives Affect Earnings Management Decisions? The Accounting Review, 76 (January): 1-26. 3 🔍 Beaver, Willian H., Richard Lambert and Stephen G. Ryan (1987), The Information Content of Security Prices – A Second Lock, Journal of Accounting and Economics: 139-157. 4、Bernard, V. L., & D. J. Skinner (1996), What motivates managers 'choice of discretionary accruals? Journal of Accounting and Economics, 22 (August/December): 313-325. 5, Berkman, H., & Michael, E. B. (1996), Empirical Evidence on The Corporate Use of Derivatives. Financial Management, 25: 5-13. 6, Brown, S. L. (1985), A Reformulation of the Portfolio Model of Hedging. American Journal of Agriculture Economy, 67 (August): 508-512. 7, Dale, C. (1981), The Hedging Effectiveness of Currency Futures Markets, Journal of Futures Markets, 1(Spring): 77-8. 8. DeAngelo, L. E. (1986), Accounting numbers as market valuation substitutes: A study of management buyouts of publish stockholders. The Accounting Review, 61 (July): 400- 420. 9. Dechow, P. M., Sloan R. G., & Sweeney, A. P. (1995), Detecting Earnings Management. The Accounting Review, 70 (April): 193-225. 10, Eaker, M. R., & D. M. Grant (1987), Cross-Hedging Foreign Currency Risk, Journal of International Money and Finance, 6: 85-105, 11, Ederington, L. H. (1979), The Hedging Performance of the New Future Markets. Journal of Finance, 34(March): 157-170. 12、 Fok, R. C. W., C. Carroll, & M. C. Chiou (1997), Determinants of Corporate Hedging and Derivatives: A Revisit. Journal of Economics and Business, 49 (November/December): 569-585. 13, Geczy, C., Minton, B. A., & Schrand, C. (1997), Why Firms Use Currency Derivatives? Journal of Finance, 52:1323-1345. 14. Guay, W. R., S. P. Kothari, & R. L. Watts (1996), A Market-Based Evaluation of Discretionary Accrual Models. Journal of Accounting Research, 34(Supplement): 83-105. 15, Healy, P. M. (1985), The Effect of Bonus Schemes on Accounting Decisions. Journal of Accounting and Economics, 7 (April): 85-107. 16, Heifner, R. G. (1972), Optimal Hedging Levels and Hedging Effectiveness in Cattle Feeding, Agricultural Economic Research, 24: 25-35. 17, Hill, J. & T. Schneeweis (1981), A Note on the Hedging Effectiveness of Foreign Currency Futures. Journal of Futures Markets, 3: 295-305. 18, Johnson, L. L. (1960), The Theory of Hedging and Speculation in Commodity Futures. Review of Economic Studies, 27: 139-151. 19, Jones, J. (1991), Earnings management during import relief investigation. Journal of Accounting Research, 29 (Autumn): 193-228. 20, Markowitz. H. (1952), Portfolio Selection. Journal of Finance, 8: 77-91. 21、 McNichols, M. F. (2000), Research Design Issues in Earnings Management Studies. Journal of Accounting and Public Policy, 19(Winter): 313-345, 22, Moses, O. D. (1987), Income Smoothing and Incentives: Empirical Tests Using Accounting Change. The Accounting Review, April: 358-377. 23、Nance, D. R., C. W. J. Smith, & C. W. Smithson (1993), On The Determinants of Corporate Hedging. The Journal of Finance, 48(March): 267-284. 24, Smith, C. W., & Stulz, R. M. (1985), The Determinants of Firms ' Hedging Policies. Journal of Financial and Quantitative Analysis, 20(December): 391-405. 25, Smith, C. W., C. W. Smithson, & D. S. Wilford (1989), Why Hedge?, Intermarket, 6 (July): 12-16. 26, Stein, J. L. (1961), The Simultaneous Determination of Spt and Futures Prices, The American Economic Review, 51: 1012- 1025. 27, Tufano, P. (1996). Who manages risk? An empirical examination of risk management practices in the gold mining industry. The Journal of Finance, 51 (September): 1097-1137. 28, Working, H. (1962), New Concepts Concerning Futures Markets and Prices. American Economic Review, 52: 431-459.