DISCRETIONARY EXPENDITURES MODELS

Professor Brian Bushee



Discretionary Expenditures

- Net Income = Cash Earnings + Non-cash Earnings
- Managers can manipulate cash earnings by delaying or accelerating real expenditures, especially those that must be expensed immediately (i.e., not capitalized)
 - Research & Development
 - Advertising
 - Selling, General, & Administrative
 - Maintenance, training, travel, etc.
- "Real Earnings Management" does not violate securities laws and is viewed by managers as more ethical
 - But, it must be done well in advance of the end of the period
- Real Earnings Management is hard to detect
 - Did managers have a legitimate reason to delay expenditures due to performance?

Model of Discretionary Expenditures

- Normal expenditures are a function of last year's expenditures, revenues, and growth
- We'll model change in expenditures (current year prior year)
 - We'll use prior year's revenue growth and prior year's revenue
 - Normal expenditures are budgeted based on prior year's results
 - Using prior years ensures that model is not affected by current year sales manipulation
 - Everything is deflated by Prior Total Assets
- Change in Expenditures = α + β *Prior Sales Growth + χ *Prior Sales + ϵ
 - Expenditures = SG&A Expense, R&D Expense, or Advertising Expense
 - Use industry-year regressions to get estimated a, b, and c parameters
 - Normal change in expense = a + b*Prior Sales Growth + c*Prior Sales
- Discretionary Expenditures = Total Change in Expense Normal Change in Expense

