Options Expensing Alert

What Investors Need to Know

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INSTITUTIONAL SHAREHOLDER SERVICES

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- This conference is being recorded. The recording and transcript will be available on our website at <u>www.issproxy.com</u> tomorrow.

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Today's Speakers

- Patrick McGurn, Executive Vice President and Special Counsel, Institutional Shareholder Services
- Jeffrey Mahoney, General Counsel, Council of Institutional Investors
- Frank Caruso, Senior Research Analyst, ISS



Discussion Topics

- Stock Option Expensing key issues
- Implications of expensing
- Market practice
- Option Expensing Alert overview



Valuing employee stock options – key issues

- Unique features of employee stock options
 - -Nonmarketability (cannot be transferred)
 - -Vesting periods (4-year graded is typical)
 - Early exercise due to terminations and employee views on future stock performance
 - -Long contract terms (7-10 years)
- Absence of market pricing mechanism



Getting to FAS 123R

- Measurement objective is to estimate the grant-date fair value of equity instruments
- FASB process
 - Nearly 60 public Board meetings
 - Two documents issued for public comment
 - Review and analysis of over 20,000 comment letters
 - Four public roundtables
 - Field visits with a variety of companies
 - Discussions and consultations with a broad range of preparers, users, and auditors of financial reports including representatives of
 - The Financial Accounting Standards Advisory Council
 - The User Advisory Council
 - The Small Business Advisory Committee
 - The Options Valuation Group



Criteria for acceptable valuation models

- Is applied in a manner consistent with the fair value measurement objective and the other requirements of the standard
- Is based on established principles of financial economic theory and generally applied in that field, and
- Reflects all substantive characteristics of the instrument
- The valuation technique must take into account, at a minimum, the following inputs
 - The exercise price of the option
 - The expected term of the option
 - The current price of the underlying share
 - The expected volatility of the price of the underlying share
 - The expected dividends on the underlying share
 - The risk-free interest rate(s)



Benefits of Statement 123(R) to investors and creditors who use financial reports

- Will result in more efficient allocation of capital
 - By permitting a better understanding of an entity's economic transactions relating to share-based payment transactions
 - By permitting a better understanding of the impact that share-based payment transactions have on an entity's financial condition and operations
 - By improving comparability of financial reports domestically by eliminating one of the two very different methods of accounting for equity-based compensation transactions that currently exist (intrinsic value method) and, thereby, eliminating the current practice that permits entity's to report zero compensation cost for certain employee stock options.



Key concerns for issuers

- Option expense is model-driven
 - -Market pricing is difficult
 - -FAS 123R offers a lot of potential models to choose from: Black-Scholes, binomial and trinomial (lattice) models, monte carlo simulation
- All models require a range of assumptions as input
 - Some assumptions can be estimated from observed historical or market data: volatility, risk-free rate, dividend yield, pre-vesting termination
 - Some assumptions are difficult to estimate or directly observe: notably, term length for Black-Scholes
 - -Some models handle the specific features of employee options better
 - Black-Scholes wraps all of these up in a single opaque assumption, term length
 - Companies have flexibility in determining assumptions for instance, what period for volatility?



Key concerns for investors

- Options affect earnings but how much is highly susceptible to changing assumptions
 - Different companies use different models, different basis for assumptions
 - How do we compare earnings?
 - -How confident are we in the numbers being reported?
 - How close is reported value to fair value?
- Complex interactions between model inputs make systematic analysis difficult – relative impacts of volatility and term length assumptions are not linear



Where we are today

- First wave of disclosures coming in 10-Ks right now
- Noticing some stark differences between old disclosures and new disclosures
 - Some companies dramatically changing term and volatility assumptions
 - But others are staying constant
 - Predominant use of the Black-Scholes model and expected-term assumptions, despite its limitations
- Raises significant consistency and transparency questions for investors

	2006	2005	2004				
Intuit							
Expected Term	2.78	2.98	3.36				
Expected Volatility	25.00%	32.5%	59.5%				
Campbell Soup							
Expected Term	6	6	6				
Expected Volatility	23.0%	21.0%	24.0%				



Enhanced disclosure has not yielded transparency for investors

- FAS 123R permits the exclusive use of historical volatility, implied volatility, or a blend of both. When calculating historical volatility, companies can carve out periods of extreme volatility at their discretion, or use volatility of peer companies.
- Expected term can take on any supportable length as long as it is no shorter than the vesting period
 - The result: expected terms ranging from 2 years to 9 years.
 - Additionally, the SEC permits companies to use as the expected term the average of the vesting period and the contractual term; for example, a 10-year option with 2 year cliff vesting would have an expected term of 6 years.
- FAS 123R permits the use of a single value or a range of values for expected volatility, dividend yield, and risk-free rate.
- FAS 123R permits the use of any established option-pricing model for estimating fair value: Black-Scholes, binomial, multinomial, Monte Carlo simulation....
 - This flexibility has lead to the most problematic issue companies are relying on the potentially less accurate Black-Scholes model



How will misstatements of value affect investors?

 Consistency is important – measure the effect of options expense uniformly across all companies, to separate economic differences from model and assumption differences



Options Expensing Alert: Applying a standard model to options expense

- ISS uses the Hull-White model
 - FASB indicated clear preference for binomial lattice models in initial exposure draft
 - Open-form lattice model accounts for option vesting restrictions, employees' suboptimal early exercise behavior, and post-vesting employment turnover.
 - Defines a condition under which employees are expected to exercise vested options in terms of the stock price reaching a specified multiple of the exercise price – a much sounder theoretical basis for ESO valuation over estimating expected term.
- ISS applies a standard assumption set
 - exclusive reliance on historical volatility using the same look-back period (versus company-by-company decisions to place exclusive reliance on implied volatility, historical volatility, or blended volatility)
 - -exclusive reliance on option contractual term (observable)
 - -constant risk-free rate and dividend yield

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Hull-White/lattice model handles employee stock options better

-Black-Scholes requires only 4 assumptions (expected term, volatility, dividend yield, risk-free rate) and combines most employee stock option-specific effects as a single adjustment to term length.

-Hull-White adds three additional, empirically observable or contractual inputs: vesting period, suboptimal exercise multiple, post-vesting employment turnover rate.

	Model					
Employee Option Characteristic	Black-Scholes	Hull-White/Lattice				
Options are not exerciseable during vesting period	Adjust expected term assumption	Explicitly modeled through vesting assumption				
Stock-price-driven early employee exercise	Adjust expected term assumption	Explicitly modeled through exercise multiple				
Employee turnover after vesting period	Adjust expected term assumption	Explicitly modeled as early exercise				



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Example:

ISS estimates that this company understated its per-option fair value by 23%, its Net Income by \$80 million, and its Earnings per Share by \$0.10.

Options Granted	Assumed Term	Full Term	Assumed Vol.	Historic Vol.	Div. Yield	Risk- Free Rate	Reported Option Value	Hull- White Option Value	Adj. to Net Income	Adj. to EPS	Reported EPS	Adjusted EPS
35 mil	4.25 Years	10 Years	25%	45%	1%	4%	\$15.73	\$19.32	-\$82 mil	-\$0.10	\$2.35	\$2.25



Findings from initial disclosures

- Over 80% of companies using Black-Scholes formula with adjusted expected term length
- Broad variance (ISS-adjusted option values range from 92% higher to 11.7% lower than reported)
 - Most of the variation within values is driven by expected term and volatility assumptions
- Hull-White/ISS value for average company in database is 26% higher than company-reported value
- ISS-adjusted EPS is on average 3.4% lower than reported EPS (weighted by dollar size of option grant)
 - Almost all of this trend is due to expected term assumption companies' volatility assumptions are not driving the aggregate results



Using the Option Expensing Alert

- A basis for company analysis
 - How far is the Hull-White option value from the company's reported option fair value?
 - Fair value assumptions (e.g. expected term and volatility), reported peroption fair value, reported EPS, and adjusted EPS (adjusted to account for under/overstated of option expense)
 - Why is there a gap? Most gaps come from aggressive assumptions concerning expected term and volatility – product displays historical volatility and option contractual term so the use can observe the source of the gap.
 - Is there aggressive accounting? Are there risks?
- A basis for comparative analysis
 - Are differences due to options expensing assumptions, or real competitive differences?
 - -Clean up sector analysis by standardizing expense



Q & A

Please use the online Q&A feature to submit questions over the web.

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